A

TREATISE

OF THE

CHOLICK;

CONTAINING

ANALYTICAL PROOFS

OF

Explanations of its feveral Symptoms and Accidents, according to the newest and most rational Principles: Together with its Cure at large.

By JOHN PURCELL, M.D.

LONDON:

Printed for W. LEWIS, in Russel-street, Co-vent-Garden. MDCCXIV.

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Printed Sec. W. Lauvice of Rollings 652



To His GRACE

CHARLES

DUKE of Shrewsbury,

Lord Lieutenant-General, and General-Governour of Her Majesty's Kingdom of Ireland, Lord Chamberlain of Her Majesty's Household, Lord Lieutenant of the Counties of Salop and Worcester, One of the Lords of Her Majesty's most Honourable Privy-Council, and Knight of the most Noble Order of the Garter.

May it please Your GRACE,



H E Honour of so great a Prince's Patronage to this Treatise, will skreen the weak

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Performance of its Author from the Censures of many; this I acknowledge as a Favour I flood in need of, tho' not to be compar'd to those extraordinary Obligations I have formerly receiv'd from Your Grace; which if I omit this Opportunity of Publishing to the World, 'tis because I am sensible that the inward Satisfaction the Wife take in doing Good, is lefsen'd to them by popular Applause: Wherefore I shall only beg Leave to assure Your Grace that my Gratitude equals the highest You have met with, the You are Univerfally belov'd where-ever Your Great Name and Merits are known. The Mildness, Justice, and Prudence with which You govern the Kingdom of Ireland, have in a ve-

ry short time endear'd You to that Nation. The great Share You had in those wife Councils by which Her most gracious Majesty has redrest the long and insupportable Calamities of Christendom, has render'd You valuable to all Enrope. The welcome Assurances of a joyful and long fought for Peace which you lately carry'd over to France, as Ambassador Extraordinary from our Conquering and Peace-giving Queen, will make the Name of TALBOT be beloved for as many Centuries in that Kingdom, as it was formerly a Terror to it. You have deservedly been the Favourite of many fucceeding Princes, and long the Darling of this Realm, but partiticularly of this County of Salop, A :

for it has ever imagin'd to it self, that some Share in the Renown due to the Glorious Atchievements of Your Grace, and of Your Il-Instrious Ancestors, redounded to its Inhabitants, who in Gratitude have never been wanting in their Affection to Your Family, nor in Respect and Civility to any that have the Honour to be related to it; and 'tis my particular Happiness therein to experience every Day more than other the beneficial Influences of Your Grace's Favour: For when by an Absence of thirty Years [spent in the Universities, and in the Practice of Physick in London, I was look'd upon almost as a Stranger in this my Native Country, and in that Town which your Grace honours with Your Title, tho'

I was born a free Burgels of it; it was no sooner known that I had the Honour to be Related to, and Favoured by Your Grace, but I found that Prejudice over-balanc'd by many Civilities, and Obligations I had no other Pretence to, conferr'd upon me by Persons of the best Quality, and many of all Degrees in this and the neighbouring Counties; for which, as I am sensible they are all owing to Your Grace's Interest, I think I cannot return my Acknowledgments in a more suitable manner, than in my Thanks to You for the Kindness they shew me.

THAT Your Grace may long live in perfect Health, always Esteem'd and Favour'd by Your Soveraign, Belov'd by Your Equals, Honoured and Respected

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by Your Inferiors, and Serviceable to Your Friends and Country in the highest Posts as You now are, are the most sincere and hearty Wishes of

Your GRACE's Signed . OI sone

Most Obliged,

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PREFACE

THO it be customary for Authors to presix a Presace to what they publish, thereby to lead their Readers into the Scope and Drift of the Work, I thought this Book needed none, nor had I made any, but to obviate some

few Objections.

The first is, that I have made this Distemper intricate, and depending upon a Multitude of different Causes, which appear'd easie before, and was deliver d to us by the ingenious Willis, and many learned Men, as occasion'd by two or three different ones only: But I am humbly of Opinion that I have not multiply'd the Causes of the Cholick without necessity, nor even without sufficient Proofs and Authority for each particular one afsign'd: And what induc'd me first to undertake this Work was, that I observ'd many different Causes of the Cholick

Cholick instanced by various Authors, which were no where to be found together in any one. Tho' I am satisfy'd no Graduate Physician is ignorant of any of them, yet as the Multitude of Quacks and Pretenders to Physick, with which this Nation Swarms, imagine that all Cholicks proceed from the same Cause, and therefore order the same Medecines for them all; I would endeavour, by representing the Difficulty and Intricacy of this Distemper, to inform them, (as far as such illiterate Persons are capable of being) how to prevent sometimes, if they won't totally refrain from killing; tho' no Perswafion can hinder them from continually endangering the Lives of others. I believe there is not one of the Faculty I have the Honour to be a Member of, who will think any Labour or Scrutiny too nice and great, where the Nature of the Distemper, and the Preservation of the Life of his Patient requires it; but if there should be one such amongst us, to him I flatter my, self, this small Performance will prove the most acceptable, because he will

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will not only find here in a few Pages, what must have taken him up Months to have collected from different Authors, but also some manner of Cure ready at hand for each particular Cause.

Another Objection is, That I have brought several Distempers under this Head, as Inflammations of the Liver and Spleen, Imposthumes, Ulcers, Cancers, Tumours, Worms, &c. which are treated of by all other Authors as distinct Distempers from the Cholick. To which I reply, that all and each of these Causes, when seated in the Lower-belly, frequently occasion violent Pains therein, which from a simular Sense of Pain are often mistaken for the Cholick, under which Denomination they generally and not improperly pass, 'till their Symptoms arising to a height manifestly denote the true Causes; after which I would no longer stile them Cholicks, but range them under their proper Heads.

It is thirdly objected, That violent Pains in the Stomach, tho' they may be of the same Nature with those selt

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in the Guts during the Cholick, ought not to be term'd Cholical, because that Appellation is only proper to what are seated in the Colon. This is disputing upon Words only, for if Cholical is agreed to be deriv'd from xwo hov, the Objection is granted, but if from nonaled to torture, it is as applicable to any other Part, as to the Guts; and are not Pains of the Gravel, term'd the Nephretick Cholick, tho' feated in the Kidneys or Vreters? It is farther alledg'd that as most Authors, particularly Riverius, (a) file a Pain in the Stomach Dolor Ventriculi and not Colica, I ought not to vary from the usual and receiv'd Denominations of Diseases: To which I answer, that, the same Riverius in another Place (b) calls it Colica Ventriculi bimfelf; and that the Cholick in the Stomach, is grown the most usual Appel. lation of it amongst Physicians and others, especially in England.

I fully design'd to have added to this Treatise, the entire Processes of one or

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(b) Idem observat. XLIV.

⁽a) Lazarus Riverius Praxeos Lib. IX. Cap. 1.

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two Cures of the Cholick arising from each particular Cause, that has occurred in my Practice, which would have comprehended most, the not all herein assign'd; but three things hinder'd me from doing it; the first was, That some of my Patients were unwilling to have their Names appear in print on this Account; without which the truth of chose Cures might have been questioned. The fecond, that several of those Cures were perform'd in Conjunction and Confoltation with some of the most eminent Physicians in London, with whom (as we now live at a Distance) I found it would draw into too great a length of time to settle them all; and I was unwilling to publish what they had the greatest Share in, without doing them entire Justice. Which the' I am at present debarr'd from in this way, nothing shallever hinder me from acknowledging the Obligations I have to that most learned Body of Physicians, who have defervedly the Fame of being the Ablest in the World; from extolling their most excellent Practice of that Art, which they have brought to a Perfection

fection not to be parallel'd in any other Place of the Universe; nor from returning due Thanks to them all, particular to the most skilful and most celebrated Doctor Ratcliff for the Instructions and Experience I have learnt from him and them, in the thirteeen Tears I had the Honour to practice amongst them. The third Reason for my not printing them, was, that I look'd upon it, as too much Prefumption, to inflance my own Cures, and impose them for Authority, without one or both of the above mention'd Evidences; but as I constantly keep exact Journals of all Cases that fall under my Care; of the Remedies I prescribe in them; and of the daily Alterations that bappen to my Patients upon taking such Remedies; I can with little or no trouble digest them against a second Edition (ifthis Treatise should chance to meet with that Approbation, as to deserve it some Years hence) and may in that time have Opportunities to obtain the Revisal of them by what other Physicians were concern'd with me in any of these Cures.

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It would be superfluous to make any Apologies now for my appearing in Print, this not being the first time. For writing on Philosophical Subjects in my Mother Tongue, I have Precedents from the famous Sir Isaac Newton and Mr. Lock, and if I could Instance no more, the Footsteps of the two most learned Men, that ever Great Britain educated, are what no one can blame me for treading in. The Receipts are in Latin, because it would prove inconvenient to put edg'd Tools into unskilful Hands. If this Work proves ever so little beneficial to Mankind, I shall thereby reap sufficient Fruits of my Labour, which shall always be employ'd, as to my Profession, in assisting every Body without Distinction to the utmost of my Skill and Power.

Shrewsbury, Decemb. 20. 1713.

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Sobirrows I. Schirrows Tumour. p. 32. for pag. 23. I. pag. 32. Ibid.
l. ult. Matthiole I. Matthioli. p. 34. l. a. Remition I. Resention. p. 46. l. 27. fbrica I. fabrica. p. 96. l. ult. for (a.) I. (b.)
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word Challete is generally thought to take to Service T. H. E. Company of one of the Cuts in which Gut alone the

CHAP. I.

Seared, the Julian Pollack derives

Of the SYMPTOMS, ACCIDENTS, and CAUSES of the CHOLICK.



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HE CHOLICK is a Distemper, that affects all Ages and Sexes; 'tis fo frequent, that there is scarce any Perfon living who has not felt it; and the Meaning of the

word CHOLICK is it self as intelligible to every body, as the best Explanation any Its Descrip-Author has, or can give of it. But not tion. to be deficient to usual Methods, the CHOLICK is properly described to be a violent

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violent Pain in the Lower-Belly; for I cannot restrain it to the Colon, as most Authors do, tho' Galen himself found fault with the Antients for it (a), nor even to all the Guts, because (as I shall shew in the Sequel of this Treatise) its Seat is frequently in other Parts of the Lower-Belly, and that Description cannot be Adæquate, that does not include the whole. The word Cholick is generally thought to take its Derivation from Colon, the Name of one of the Guts, in which Gut alone the Ancients, and many of the Moderns, erroneously suppose this Distemper is always Seated; tho' Julius Pollux derives it from Kohale Sau to Torture, and is of Opinion that the Greeks therefore gave that Gut the Name of Kanov, because 'tis subject to most Torturing Pains.

Its proper Symptoms. A Person seiz'd with the Cholick, is afflicted with a violent Pain in his Belly, which is sometimes extended to its whole Circumference; now fix'd to a Point, and hores like an Augre; at other times removes from place to place. One suffers such violent inward Contractions, that it feels to him, as if his Guts or Bowels were surrounded and pull'd together with Cords;

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⁽a) Satis mirari non possum quo pacto vehementissimos quosque dolores, quacunque in parte consistant, ab omnibus Colo tribuantur. Galen, lib. 6. de loc. affect. cap. 2.

in others, not only the Guts, but even the outward Muscles and Skins of the Lower-Belly will be swell'd and stretch'd to such a degree that they seem ready to burst. The Belly is generally hard bound, and but a small quantity of Urine evacuated. These are the common, distinguishing and proper Symptoms of the Cholick; besides which, there is frequently a Sharp and Burning Heat in the Lower-Belly.

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There are several other Symptoms ac-Its accideneidental to this Distemper; as, a Fever; tal Symp-Thirst; sharp, sower, or bitter Taste; Rest-toms. lessness, and want of Sleep; Vomiting,

Belching; a Heat; Sharpness or entire Suppression of the Urine; the Jaundice; loss of Appetite. A beating in the Belly like a strong Pulse; a Cold Sensation or Chilness in it; Cold Sweats; Fainting Fits; Giddiness; Convulsions. Sometimes the whole Belly will be drawn inwards so close to the Backbone, that there is scarce any Appearance of it left: In one, the Navel only, with a small Circumference adjoyning to it, shall be drawn inwards; in others the Navel swell'd outwards. Some void great Quantities of Tellow or Greenish Matters by Stool, without finding any Ease and Relief thereby: The Excrements of others are like Cow Dung, full of Wind, and so light as to fwim upon the furface of the Urine. The Cholick frequently ends in a Palsey, or Epi-

lepfy, sometimes in the Gout, Dropfy, Rheu-B 2 matism, matism, or Extenuation of the whole Body.

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Different Sensations of its Pain.

It is to be remark'd, that the Pain felt in the Cholick, is often of a different Senfation, not only in divers, but also in the same Person at different Times; as now a Burning, then a Gnawing Pain; sometimes a Bearing, at other times a Pressing, or Heavy Pain; to some it seems as if their Bowels were torn, twisted, stretch'd, or contracted together; to others, that something like a Cold Iron is run through their Guts; and frequently a settl'd Chilness, or intense Coldaffects all, or iome one particular part of the Belly. These different Modifications of Pain, ought to be enquir'd after, because, join'd to other Symptoms, they give a Light into the true Cause of the Distemper: For though People commonly imagine, that all Cholicks proceed from one and the same Cause (and therefore generally take the same Remedies for them all) they arise from various ones, several of which require different Methods. and some quite opposite Remedies for their Cure. Wherefore Physicians ought always to Examine very carefully, from what particular Cause each Distinct Fit of the Cholick proceeds; the Knowledge of which will not only prove advantageous to the Patients, as a means to their more certain and speedy Cure; but nothing will give them that Opinion of a Physician, and

Cholicks
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and make them have so great a Considence in him, as their Experience of his constant hitting the real Distemper, and its true Cause; in which, as Hippocrates (a) judiciously observed, the greatest part of the Cure consists.

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To establish the Causes of the Cholick An Analy Analytically, I must examine all that Part tical Enquiof Human Body in which this Disease is " into the seated, and see what is contain'd therein Causes of capable, what uncapable, of producing it. the Cholick. The Seat of the Cholick is in the Lower-Belly; in which, I find by its Diffection, outwardly expos'd to View the Cuticle or Scarf Skin; under that a reticulous Continuation of little Bladders, fill'd with a Humour call'd Corpus Mucofum; next to it the Skin properly so call'd, which is the Organ of the Sense of Feeling, abounds with an Infinity of little Eminences, nam'd Milliary Glands, thro' which the Insensible Perspiration, and the Sweat, are filtrated; and with innumerable Protuberances of a little larger Size, term'd Papille Pyramidales, implanted with bulbous Roots, like small Onions, out of which the Hairs sprout in Men and Beasts, and the Feathers in Birds. Immediately under this Skin is spread a Continuation of little Bladders like to a Honey-comb, fill'd with an in a line form mB 3 man brings cross

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⁽a) Hippocrates, Lib. de Arte.

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Is adherent to the Guts throughout their whole Length, and being of a circular Form, gathers them into a narrow Compals, and secures them from Twisting and Entangling with one another: Towards the middle of the Mesentery is a Gland call'd Pancreas Afelli, to which one fort of Latteal Vessels ranging between the two Skins of the Mesentery carry the Chyle from the Guts, and another fort of them call'd Secondary Lasteals convey it thence to the Chyle-Bag: Next appear the two Kidneys, one on each Side, with each their Ureter, and each a lesser Gland adjoyning to it, call'd Capfula Atrabilaria, or the Renal Glands: Then are feen the Great Vein, and the Great Artery, lying along upon the Back-bone; and under them are feveral Muscles; behind which is the Back-bone, perforated in its Length, and fill'd with the Spinal Marrow. There are other Muscles outward of the Back-bone, with the Common Membrane of the Muscles; the Membrane of Fat, the Skin, the Corpus Mucofum, and Scarf-Skin, all in the same Situation as describ'd in the Fore-part of the Belly; towards the bottom of the Belly in Man, are the Bladder, the Spermatick Vessels, the Vesicula Seminales, the Vasa Deferentia, and the Proftate; and in Woman, the Bladder, the Womb, the Ovaria, and all the Parts inserving to Generation. Besides all these, there is in the Lower-

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Lower-Belly a multitude of Fibres, Nerves, Veins, Arteries, and Lymphatick Vessels.

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Now the Skins, Muscles, and all the ward Parts Parts mentioned to lye outward of the Peof the Belly not the feat ritonaum before, and of the Back-bone be. of the Cho. hind, can none of them be the Seat of the Cholick, because a Pain in them is not (ase we find by the daily Experience of Inflammations and Boils in them) referr'd to the inward Parts, but easily distinguish'd to lye outward, and to be of a different Sen-

fation from the Pain of the Cholick.

Nor the Caul.

The Caul being a Membrane fill'd with a Fat Oily Substance, whose Use, in part, is to hinder the Acrimonious Salts of the Blood and Humours from fretting and corroding the other Parts of the Body, is by consequence scarce ever liable itself to the Action and Impression of any sharp corrofive Humour, or to the Sense of Pain, efpecially of so violent a one as the Cholick. For as Galen (a) observes, that Pain which is not violent, is not to be call'd the Cholick. And Experience convinces us, that any part of the Caul may be gangreen'd and cut off, with little or no Pain to the Patient: For which Reafons I am induc'd to believe, that the Caul is never the Seat of the Cholick, unless when being Schirrous or Swell'd to an ex-

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⁽a) Galenus, lib. 6. de loc. affect. cap. 2.

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traordinary Bulk, it presses upon the Guts, fo as to stop the Passage of the Excrements. Nor are the Reasons given by Dolaus (a) of sufficient Weight to make me alter my Opinion. For the in an Omental Rupture the Caul m y be inflam'd, and affected with violent Pains, they are then occasion'd by the Rupture (an establish'd Cause of the Cholick) which stretches the Fibres of the Caul to a preternatural Extention, which can never happen in its natural Situation. And the Instance of a Soldier. whose Caul was cut off, and he thereby fubject to violent Pains of the Cholick, which Galen cur'd, by making him wear a Flannel Cloth upon his Belly, is of no Force, for it only confirms the Observations of many Anatomists, that those Perfons are subject to Cholicks, in whom the Caul does not cover all the Guts. To omit many Observations of Authors, who by Diffections have found the Caul Ulcerated and Gangren'd, in Persons not troubled with the Cholick, I shall mention but this one out of Blassus: (b) He having open'd the Corps of a Young Man, who for many Weeks before his Death was afflicted with continual Vomitings, and an excessive Pain about the Pit of his Sto-

⁽a) Johannes Dolaus Encyclopadia, lib. 3. cap. 7. (b) Blasius Observ. Anatom. 124.

mach, found the Caul black, and almost Gangren'd, through its whole Extent, and the bottom of the Stomach inflam'd in that Part, where the Caul adher'd to it, and the violent Pain was felt. Whence I remark, that the' the Caul, which reaches over almost all the Lower-Belly, was so much vitiated, yet the Pain was felt no where, but in the bottom of the Stomach, consequently not in the Caul, tho' affected in a far greater Degree than the Stomach, to a small Part of which only the Infection had spread it self.

The Kid. meys, Ureter der, none Seat.

The Kidneys and Ureters are the Seats and Blad. of the Nephretick Cholick, and the Bladder that of violent Pains occasion'd by the of them its Stone; but as those are distinct Distempers from the Cholick I here treat of, none of them can be allow'd for the Seat or Cause thereof, tho' they frequently Impole upon Patients and Physicians for, and are very difficult to be diffinguish'd from, the Cholick here in Question.

Nor the rentia, or Seminal Veffels.

The Proftata, the Vasa Deferentia, the Vafa Defe-Spermatick and Seminal Vessels, are often swell'd, inflam'd or ulcerated in Venerial Diftempers, and thereby affected with violent Pains, which however are of fo very different a Senfation from the Cholick. that no one ever mistook them for it; consequently there is no reason to allow of any of them for its real Seat.

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Tho' it is possible, that the Vertebra of the Back-bone may by an ill Conformation, by a Diflocation, or Excressence, press upon the inward Parts of the Lower-Belly, fo as to occasion a violent Pain in them, or may from a Caries (a) supply Acrimonious Nor the Particles to Corrode the Parts; yet as the Back-bone two latter Accidents are seldom met with, or Spinal and scarce possible to be discover'd 'till after Death, and the two former were never known to occasion this fort of Pain, it is not reasonable to reckon the Back Bone amongst the Causes or Seats of the Cholick, and much less the Spinal Marrow contain'd within its Cavity, because it is of the selffame Nature and Composition with all the other Nerves, which, as I shall endeavour to prove, are incapable of producing the Cholick.

Piso indeed, and the Learned Willis, will Notion of a have the Cholick to be a Nervous Distem-Nervous per, and the latter seats it chiefly in the Cholick. Mesentery. He pretends that some Recrements of Humours are carried down by the Nerves from the Brain, into the Mesenterick and other Nervous Plexus's of the Lower-Belly, where they are stopp'd, because being of a thick viscous Nature, they cannot enter into the Lymphadusts, nor be discharged through the small Ramifications

(2) Bonetus Anat. pract. p. 521. p. 1175.

mifications of the Vessels into the cavity of the Guts, but gathering in those Plexus's of the Nerves stagnate, swell, and cause a Diffention or Irritation in them, either by their Quantity, or by a Fermentation produc'd in them, by a mixture of some fix'd Salt Humours from the Blood; and that this Distention or Irritation affects a multitude of Fibres with which the Mesentery abounds, and causes Contractions and Painful Vellications in them, from whence the Cholick arises; and that various Nervous. Fibres proceeding from these Plexus's in the Mesentery, being distributed into the Guts, and almost every Part of the Lower-Belly, cause in them also Contractions and Painful Vellications. (a) This ingenious Hypothesis seems very plausible at the first View, and the great Reputation of its Inventor has not only left it uncontested by any to this Day, but has also establish'd it amongst all Authors and Phyficians as undeniable, and even the Principal and most common Cause of the Cholick. But fince I cannot allow of what this Learned Doctor advances, I hope the Reasons I shall offer to the contrary, will excuse my Disagreement with him; wherein I shall endeavour to make it appear, 1st, That his Hypothesis is not well grounded.

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⁽a) Willis de Anima Bruter, Part 2. Cap. 15.

grounded. 2dly, That the Seat of the Cholick seldom or never lies in the Mesentery. 3dly, That the Notion of any Nerwous Cholick is groundless, and an Imposition upon Patients and Physicians, to the great Detriment of the former, and Discredit of the latter.

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This Hypothesis of Willis is ill-groun- Willis's ded; because establish'd upon Suppositions Hypothesis without any Proofs. The Recrements he refuted. supposes to be convey'd by the Nerves from the Brain, into the Plexus's of the Mesentery, must be the Animal Spirits, because the Nerves contain nothing else. If these Animal Spirits or Recrements can continue their Motion down the minute Channels of the little Nerves, into these Plexus's, Why should they stop there? Nothing but an Obstruction can occasion it, and it is notorious, that an Obstruction of a Nerve will occasion a Cessation or Diminution of Feeling in the Part, which is quite the Opposite to an Irritation or Pain in it. Or should it be admitted, that the Spirits may be stopt in a Nerve by other Causes than an Obstruction, there is no Reason why this should happen oftner in the Mesenterick Plexus's than elsewhere. For his Supposition of the Nerves inosculating with one another, and forming a new Emporium, Basin, or Receptacle for the Spirits, in these and other Plexus's, is but imaginary, and so far from Truth, that every little Nerve continues its Course from the Brain down to the Part it belongs to, in a distinct separate Thread (not only thro' these Plexus's, which, put into Water, may be disentangled into Fibres visibly separate and distinct) but also thro' the Spinal Marrow, wherethey are so confus'd, they seem all together to make but one great Nerve. But admitting, as I said, that the Spirits should stop in these Plexus's, yet it would not from thence follow, that they must ferment and cause a Swelling; nor that a Fermentation or Swelling, if there wereany, would occasion so violent a Pain as the Cholick: Neither doth he alledge any Reasons, that I find, to prove this Asfertion; nor have I ever met with any Experiments amongst Anatomists which render it probable, but rather such as prove the contrary. For if you tye a Ligature upon the largest Nerves, and repeat the Experiment ever so often, you shall never perceive the least Swelling above the Ligature. And if he imagines that the Swelling and Distention of the Nerves, tho' imperceptible, may cause a Pain within them, and will have the Seat of Pain to lye (as he seems to think it does) within the Substance of the Nerves, in the Part it self; 'tis what neither he, nor any body else hath yet made appear by any probable Arguments; and if they had, would be easily resuted by this one Matter of Fact, that

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that whenever there is an Obstruction in any Nerve, there is no Swelling, neither does any Pain follow from thence, but on the contrary a Ceffation or Diminution of the Sense of Feeling in the Part; as it is manifest and undeniable in the Palsie. But, fays he, perchance some fix'd Salt Humours feparated from the Blood, may mix with the Spirits in the Mesenterick Plexus's, and cause an Effervescence in them, whence a violent Pain, or the Cholick will arise. 'Tis but perchance, without the least Proof; and I would willingly have any of his Abettors answer me, why the same Cause does not as frequently produce the same Effects in the Plexus Cardiacus, or Pneumonicus? But admitting the Mixture of these fix'd Salt Humours with the Spirits in the Mesenterick Plexus's, and that it shall happen no where else, what would follow? A Fermentation: The Consequence of which he pretends would be a Convultion in that Part. And will a Convulsion occasion so violent a Pain as the Cholick is? No: Willis himself owns the contrary in another Place (a). And I have met with three Persons in my own Practice, one at Rarb, another at Marseilles in France, and the third now living in Sbrewsbury,

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⁽a) Licet dolor metus convulsivos, attamen hi istum per se saltem magnum & diu perseverantem minime producunt. Willis de Anima Brutor. Part. 2da. cap. 15.

who were and had been for several Years in continual Convulsions of all the external Parts of their Bodies, like to the Chorea Sancti Viti: I examin'd them with particular Care, and they all three assured me, they selt no great Pain, nor were any of them more subject to the Cholick than before, tho' 'tis probable, that all the inward Muscles (amongst which the Guts are to be reckon'd) were seiz'd with the same constant Convulsions as those of the outward Parts.

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A Pleasure peculiar to all Inventors, made the most ingenious Willis not only less accurate here, but even deficient in his usual Force of Reasoning, in Anatomy, and in the proper Use of the Parts of Human Body; things in which he generally excell'd, and for which he is so deservedly renown'd throughout the whole learned World. One Reason he gives, why the Spirits or Recrements stop in the Mejenterick Plexus's, is, because they are so thick and viscid, they cannot be receiv'd into the Lympheducts. But can any Physician or Philosopher suppose a Humour, thin and active enough to be convey'd from the Head down to the Mesentery, thro' the smallest invisible Channels imaginable; and yet too thick and viscid to be receiv'd into other Channels, confiderably larger (and such are the Lympheducts?) Or will any Anatomists allow, that the Use of the LymITS

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Lymphadusts in the Mesentery (appropriated to carry the Lymph into the Pancreas Afelli, there to be mixt with the Chyle) is to receive and carry off the Spirits from the Nerves? Or that the Nerves themselves throw off the Spirits like an Excrement into the Guts. Or lastly, that these Animal Spirits or Recrements which he supposes to be so thick and viscous, that they could not pass thro' the Mesenterick Plexus's (Basons, in his Opinion, capable of containing a large Quantity of Spirits lodg'd there, to be distributed on occasion into many Nerves) shall yet afterwards run thro' a vast number of much smaller Vessels. than they first came down thro' from the Head, and occasion violent Distempers and Irritations in them, when they had no fuch Effect in their Passage thro' those larger Nerves; for if they had, then a Pain as great as that of the Cholick would have been felt, from the Head, all along the Spinal Marrow.

Having given these Reasons why the The Mesen-Cholick cannot be produc'd after the man-tery not the ner Willis pretends; I am next to prove, Seat of the that it is improbable the Mesentery should ever be the Seat of the Cholick. My Reasons are these; 1st, Because I my self have been present at four Dissections, wherein we found the Mesentery U cerated or Gangren'd in Persons who had not been subject

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to the Cholick when Living; and Anatomists recount a multitude of the like Instances. 2dly, Because the Mesenteries of most Dropsical People are found corrupted; yet the Cholick is no usual Symptom or Companion of the Dropfy. 3dly, Because Swellings, Schirrous Tumours, Impostumes, Ulcers, and Stony Concretions in the Mesentery and Meseraick Veins, often occasion Consumptions, by stopping the free Course of the Chyle into the Blood, without any Symptoms of the Cholick, as many Authors attest from Observations. and Ocular Proofs in Diffections. (a) Bontius assures us, there is a Distemper very frequent in India, proceeding from Defects in the Mesentery (which in this Disease is always found Impostumated or Ulcer'd, and often intirely confum'd) by which the as great as that of the Cholick would

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⁽a) Fabritius Hildanus, dentur. 2. Observ. xliv. Sennersus practic. lib. 3. part. 5. Sect. 1. cap. 3. in fine.

Raymundus Fortis, Cons. 37. cent. 3.
Panarolus, Observ. xix.

Wharten Adenograph. capristic the discount

Christopherus Roisterus in Miscelan curios. An. 1672,

Observ. 307.
Schneiderus, lib. 3. de Cathar. c. 7. p.247.

Gaspar Baubinus, & Bonetus Anas. Practic. pag. 614, 615, 619.

Patients waste to Death, without the least

Sense of Pain (b).

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That the Notion of a Nervous Cholick is The Notion groundless, I shall endeavour to make out, of a Nerchiefly by refuting the Arguments and vous Cholick refuted. Reasons it is grounded upon; and also by Mechanical, and, in my Opinion, more rational Explanations of the same Symptoms from other Causes; which latter part shall be only briefly touch'd in this Chapter, but more fully provid in the Sequel of this Treatise.

The Nervous Cholick is, by the learnedst Assertors of that Opinion, said to be produc'd after the sollowing Manner. They suppose that the Spirits slow with Impetuosity into the Nerves of the Lower-Belly, whereby they either swell and distend the Channels of those Nerves, or else mixing with other Humours occasion a Fermentation; by either of which Causes they pretend, that the sensible Fibres of the Parts in which this happens, will be vellicated and drawn into Contractions and Convulsions, whereby a Solution of Continuity, or Disruption of the Fibres, and consequently a violent Pain, or the

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⁽b) Bontins Observat, xi

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Cholick will be occasion'd (a). I have already shewn, pag. 13. that there are no sufficient Grounds to suppose the Spirits should stop more in the Plexus's of the Lower-Belly, than elsewhere, but rather the contrary, according to their Systems. 2dly, pag. 13. That if they should stop there, they would then occasion a Cessation or Diminution of Feeling in the Part, not a Pain in it. 3dly, pag. 14. That suppose they should cause Contractions and Convulsions in those Fibres, those Convulfions would not occasion Pain.

To strengthen which Reasons, I will add but two, out of many I could instance. The ift, That in Epilepsies, several Parts of the Body, and consequently the Nerves in those Parts, suffer strong Convulsions; and yet the Patients are to far from fuffegoithixing with other Hamours' occasion

Spasmodicam dicemus Colicam, eam, in qua spiritus Animales, à materia aliqua subtili ita afficientur, ut, motum ordinarium intermittant, & ad Mesenterium aliasque partes sensiles membranaceas tumultuose influant, ibidemque vellicando fibras Nervorum, easdemque ladendo ac rumpendo delorem non exiguum producant. DOLÆUS Encycloped. lib. 3. cap. 7.

⁽²⁾ In Colico dolore materies fibras fenfiles distrabens, & ab invicem divellens, proindeque in corrugationes dolorificas irritans, hand ufque in Cerebro commoruri, verum exinde per ductos Nerveos versus Intestina descendens, aliqubi in eorum vicinia juxta partes dolentes congeri, & subinde velob plenitudinem sponte turgescens, vel cum also humore Effervescens, morbi bujus Paroxismos inferre videtur. Tho. Willis, de Anim. Brutor, Part. z. cap. 15.

ing violent Pains, that there is frequently an entire Abolition of the Sense of Feeling, and always a great Diminution of it, in so much that one may often pull, pinch, cut, or burn them, without their perceiving it. The 2d, That when the Cause is translated from the Fibrous Parts upon the Nerves, as it happens when the Cholick ends in a Palsy, then all Sensation of Pain ceases, tho the Cause affects the Nerves more at that time, than it did before. And yet this is the very Reason Willis (a) assigns, to prove that the Seat of this Pain is in the Nerves themselves.

One Reason they give for establishing the Seat of the Cholick in the Nerves, is, because they can suppose nothing besides the Spirits active enough to transfer the Pain in an instant from one place to another; and because it is hard to conceive how any Humour in the Guts can so affect the Loins, as to cause a Pain in them, which is a Symptom very frequent in the Cholick. To which I Answer, that for

(a) Dolores Colici ingravescentes non raro in Paralysim terminantur, quod certe indicio maniseste est materiam morbiscam non per Arterias, sed Nervos deserri, ejusque subjectum sive sedem non Intestinorum Cavitates aut Tunicas sed Mesenterii plexus Nerveos esse. Willis de Anim. Brutor. cap. xv. pag. 206.

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want of a thorough Examination, they mistake the Effect for the Cause, or the Second, Subservient or Instrumental Cause, for the Prime and Efficient one. The Nerves, or rather the Spirits contain'd in them, are undeniably the Instruments by which Pains are transferr'd in an instant from one place to another, and by which the Effects of the Prime actuating Caule are perceiv'd; but are never the Efficient Caules themselves of any Pains, which are always occasion'd by something Externa or Adventitious to the Body; which the it may not be always scated in, nor even adjoyning to all those Parts that are affected with Pain, yet does vellicate and irritate the Nerves belonging to those distant Parts, as they happen to run through, or to have Communication with the Part in which the Principal Cause resides. So we find by daily Experience, that a Pain is felt in a Part amputated, and referr'd (for Instance) to a Finger long since cut off; which is occasion'd by an Irritation of the particular Nerve belonging to that Finger, made in a superior Part of the Hand or Arm. Which, to omit many others, is a sufficient Proof, that all Senfations are made in the Brain, and not in the Part. Another Argument they bring for this Affertion, is, that the Spirits often produce the like Disorders in Children when they Breed des and ar atheir

their Teet b bard. But this is begging the Question; they allege no fatisfactory Reafons to convince us that the Spirits occasion these Disorders in Children, but only Explicate it so themselves, because they know not how to account for it otherways, and would have their own Suppositions allow'd for Proofs in other Cases; whereas the true Cause of these frequent Convulsions in Children, is the Acidity and Sowerness the Milk Contracts in the Stomach and Guts; whereby as it passes through the Lacteals, into the Mefentery, it irritates the Nerval Plexus's, and by those Irritations causes greater and more violent Influx's of the Spirits into all those Parts, whither the Plexus's fend Ramifications of Nerves; where mixing with the Sulphurcous Particles of the Copula Explosiva (which also partake of the same Sowerness, that the Chyle and the Blood has acquired) they cause violent Contractions and Convulsions. But the Pain then felt, does not, as Willis owns, arise from those Convulsions; but, as I faid before, from a violent Reflux and Undulation of the Spirits back to the Brain, made by the same Cause, arthe fame time: And for a Proof that thefe Convulsions are caus'd in Children by the Somerness of the Milk, I need only alledge, that they are cured by Corral, Grabb's Eyes, and such like Remedies, which correct that

that Sowernels. But for a farther Confirmation, and to shew the like in other Cases. Does it not often happen to many People an Hour or two after Meals, that they feel a Chilness or little Shivering throughout their Bodies? which proceeds from the Coldness of the Chyle irritating the Nerval Plexus's, as it passes through the Mesentery. And in Agues, a greater Shivering or Shaking is diffus d through all the Parts, which is known to arise from Sower Acid Indigestions, collected in the Cavities of the Guts, and carried at that time by the Lasteals, through the Mesentery into the Blood. This is arguing after Matter of Fact, the other upon Suppositions without Grounds; and if I can, as I hope to do in the sequel of this Treatise, explain every Symptom this way, at least as Mechanically as they do it otherways, I doubt not but it will be allow'd to be the better way of Reasoning upon Things unseen, and to carry a likelier Face of Willis owes wife from those ConvuldiuT

I say then, Ift, That all Sensations and all Pains (that of the Cholick amongst the rest) are occasion'd by an Irritation of the Nerves, in or belonging to that Part where the Pain is felt; and that this Irritation, according to the degree and manner of its Action, causes a more or less violent againg the Remedies, which correct

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Reflux, or Undulation of the Spirits from the Part affected, back to the Brain; in which (the Brain) the Impression is made, and the Pain felt, though referr'd to the Part. 2dly, That no Impulse, Pressure, or Motion of the Spirits down from the Brain into any Part, can ever cause a Sensation or Pain. My Reason (to omit many others too long to be inserted here, but which I may hereafter publish in another Treatife against the common receiv'd Notion of such a multitude of Nervous Distempers) is, because 'tis an undeniable Truth, that I can cause a troublesome Senfation or Pain at any time, and in any Part of the Body, by only striking or imparting a violent Motion to that Part: This Motion, according to all learn'd Physicians, must be carried by the Nerves up to the Brain, to produce the Sense of Pain (for how otherwise can there be a Remembrance of it, without a new Action or Stroke?) Therefore I certainly know, that a violent Motion of the Spirits from any Part up to the Brain, will occasion the Sense of Pain; and if I can account for all Pains whatsoever from this Cause, which is undeniable, why should I seek for other Causes less evident and satisfactory? Moreover, I never read, nor could yet imagine to my self, any one Instance or Proof whereby the

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the Motion of the Spirits down from the Brain into a Part, appear'd to occasion a Pain in it, but many to the contrary; as that in the continual Beating of the Heart (and the same may be said of the Pia mater, and Guts) to which the Spirits must constantly flow from the Brain, for its muscular Motion, not the least Pain, no not so much as a Perception of its Beating is felt, unless when it hits against the Ribs or some other Part, and then the Perception is occasion'd by a Reflux, or Undulation of the Spirits from that Part it firikes against up to the Brain: And that in Running, violent Exercises, and Convulsions, there is no Pain felt in the Muscles, tho' tis certain that the Spirits then flow down from the Brain into them in great quantities. I own that the Spirits which flow down from the Brain into the Muscles. are the Principal, though not the fole Cause of Contractions and Convulsions, but from neither of them arises any Pain; or if ever there does, 'tis only then when they are so violent as to occasion a Reflux, or contrary Undulation of the Spirits from the Part back to the Brain.

That the I come now to the true Seats of the ChoCholick is lick; and first to the Peritonaum, wherein
Seated in the I affirm the Cholick may be, and is often
Peritonaum. Seated, tho' Willis denies it for the follow-

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g Reasons (a): Because it is a thin Memrane, has but few and slender Vessels, is ncapable of containing any large quantity f Humours, and unable to contract or press own the Bowels: To which I answer, hat the Periosteum is a much thinner Memrane, yet subject to most cruel Pains; and hat the Peritoneum is both capable of conaining, and often found full of Humours, s several Authors (b) testifie from ocular Proofs. Heers (c) relates of one who died by Cholical Pains, violent round his Nael, that his Peritoneum contain'd above welve Pound of putrid Matter: Bylerus d) assures us, that he open'd a Woman who died also of a Cholick fix'd about her Navel, and found the Periton cum corroded by a sharp bilious Humour, just in that Place, where her violent Pain lay. Scultetus (e) in the Dissection of a third, who was tortur'd with insufferable Pains about the Navel, found the Peritonaum swell'd to a prodigious der abilities or Renal Glands

⁽a) Mineram vero Colicam à Peritoneo rejicimus, quia membrana bac cum admodum tenuis, ac vajis paucioribus at tantum exilibus donata sit, nec magna bumorum affluxionis capax; neque resa ut convellatur, viscera substrata comprimendo, aut contrahendo in dolores urgere posse vidotur. Willis de Anim Brutor. part. 2. cap. xv.

⁽b) Paulus Barbette Anatom, pract. part. 4. cap. 2.
Bogdanus observati. xi.

⁽c) Henricus ab Heers, Spadacrene observat. 25.

⁽d) Lucas Bylerus Dicad. 6. caf. 6.

⁽c) Joannes Scultetus in Trichiasi admiranda.

digious degree, and in it twenty four Pound of putrid matter, and also a fleshy Substance four Inches long, and as many in breadth, cover'd with long Hairs: And other Authors give us Instances, where the Skins of the Peritonaum have been stretch'd into Bladders, containing even thirty Pound weight, or fifteen Quarts of Humours. (f) And certainly the Peritonaum is, from these Experiments, and its own Texture, as capable of being fill'd with Humours, irritated, cortoded, instam'd or ulcerated, as any other Membrane, consequently as subject to be the Seat of the Cholick.

In the Na-

The Navel-string has been found dilated and swell'd with Humours, (g) and it is (as are also the Muscles scituated along the Back-bone within the Belly) liable to most of the above-mention'd Alterations, therefore may from any of those Causes, be the Seat of Cholical Pains.

In the Renal Glands.

The Capfula Atrabilaria, or Renal Glands, may be the Seat of the Cholick, either from an Inflammation of their outward Skins, or from a Cancerous Ulcer within their Substance; of which latter, Selimus the first, Emperor

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⁽f) Volkerus Coiter observat. Anat. pag. 177. Zacutus lib. 2. observat. 52.

⁽g) Platerus lib. 3. prax. cap. de extuberantia. Riolauus Anthopograph. lib. 2. cap. x. Hildanus cent. 1.06f. 47.

Emperor of the Turks, died in most miserable Torture, as Leonclavius and Heurnius relate (b).

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Riolabf. 47.

The Womb may be the Seat of the Cho. In the Womb lick, from an Irritation, Corrofton, Inflamma from many tion, Ulcer, Cancer, Swelling or Schirrous Causes. Tumour, in its proper Substance, its Ligaments, or any other part of it. 2dly, By any Excoriation or tearing of its Substance by a Midwife; by a Corruption of a Fatus in the Womb, by any Splinters of Bones remaining in it, after a Child has been torn out piece-meal 3 dly, By Tumours in the Ovaria, which sometimes have been found in it of the bigness of a Goose Egg, fill'd with Corruption and long Hairs, from with at whence proceeded intollerable Pains of the Cholick (i). 4thly, From the like Swellings in the Tube Fallopiane (k). stbly, By a Fætus lodg'd in either of the Tube Fallopiana, of which Riolanus (1) relates an Example, where it occasion'd most cruel Pains of the Cholick for four Months together. 6thly, By Stones generated in the Womb, which Hippocrates (m), Vallesius, and

A west Confession in mischen surich objects 17.

⁽h) Leonclav. in Annal. Turcicis. Heurnius histor. 25.

⁽i) Fabritius Hildanus. cent. 5. observ. 48.

⁽k) Antonius de Pozzis in miscellan. curios. observ. 42.

⁽¹⁾ Riolanus Anthopograph. lib. 2. cap. 35.

⁽m) Hippocrates lib. 5. de morb. popularib.

ethers testifie. Bartholines (n) Instances one of six Pound weight found there. Sometimes the Neck of the Womb becomes Carthaginous, or its Sides grow together, and hinder the Evacuation of the Menses, whereby Platerus (e) found the Womb sill'd with Putrid matter, causing violent Pains of the Cholick. The whole Substance of the Womb has also been found Cartilaginous, and almost Bony in some (p) in others perfectly turn'd to a Stone (r).

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Proofs that The Pancreas is sometimes the Seat of the Cause the Cholick, occasion'd therein by Instammablick is sometimes, Impossumes or Olcers, as Higmorus and times seated Henrius prove from Anatomical Diffection the Panons (r): or by Schirrous Tumours in it, pressing upon the Guts or other adjacent Parts, as Riverius and others observ'd (s): or by Scong Concretions in its Channel, or proper Substance, attested by credible Authors (r). It may also swell to an extravagant Bulk, even as big as the Liver (u);

(n) The Bartholinus cent. 4. hifter. 64:

(1) Lazar, Riverius cent. 1. observ. xc. Riolanus Anshopogr. lib. 2. cap. 16.

(t) Heurnius comment. in Aphor. 41. fett. 6. Bonet. A. nat. practic. p. 939.

(u) Riolanus Anthropogr. lib. 2. sap. 16.

⁽o) Platerus Observat. lib. 1. pag. 260: (p) Andreas Cnoeffellius in miscelan. curios. observ. 57.

⁽q) Quentzius in Anas. practic. Bonet. pag. 1136. (r) Higmorus disquis. Anas. lib 1. part. 2. Heurnius commentar. in Aphor. 41. Sect. 6.

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adhere to the Stomach, and weigh it down; or the Recrement it separates being mixt with the Gall in the Duodenum, if by any accident it chances to be thrown up into the Stomach, will frequently cause troublesome stritutions in it, and the vomiting of Green Porraceous matter, of which last see more in Etmuller (x): All, or any of which Causes may occasion violent Pains of the Cholick.

The Spleen is often the Seat of the Cholick, seated in from Inflammations, Obstructions, schirrous the Spleen, Impostumes, or Obsers in it; from its swelling into a huge Bulk, sometimes so large as to fill the greatest part of the Cavity of the Lower belly, and to press the Guts, and Stomach it self down to the bottom of the Belly (a): from the Relaxation or Rupture of its Ligaments, whereby it has faln from its natural Situation down into the Loins; or being loose, has rowl'd up and down the Belly (b). From the bardening of its outward Skin into a Cartilage: (c)

er thought lib. 2.

⁽x) Etmullerus de valetud. Infant. Sect. 21. de Termin. & variis Alvi Excret. Infant.

⁽²⁾ Gerardus Blasius observ. medic, 14. — Hipolitus Boschus Anat, lect. 2. pag. 14. Cabrollius observ. anat. 6. Georgius Garnerus. &c.

⁽b) Riolanus Encheir. lib. 2. cap. 26. Cabrollius observ. Anat. 6.

⁽c) Realdus Columbus lib. 15. Tulpius observ. medie. lib. 2.

or from Tartareous Concretions, Gravel and Sienes, form'd, and remaining within its Substance (a). see a sit of the oth drive

Seated in The Liver is very often the Seat of the the Liver. Cholick, from its Inflammations, Obstructions, Schirrous Tumours, Imposthumes, or Ulcers (e). From its swelling into a great Bulk, sometimes so excessive, as to fill most part of the Abdomen, and to press the Stomach down to the bottom of the Belly, by which Bartholinus observ'd violent Pains of the Cholick (f): by it's Adhering to the Diaphragm, and weighing it down, from whence a violent Pain is often felt in the Right Side (g). By Tartareous Concretions, Gravel, and Scones of divers Figures, as round, square, angular; and of divers Colours, as green, black, whire, yellow, speckled, form'd and remaining in its Substance, in its Bladder, in the Porns Biliaris, or in any of its ; or being looke, has rowl'd ap-

(f) Tho. Bartholimus histor. lxxi. cent. 4.

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DWE and THS 2 OUT bled and foun (c). L two the i foun men The fhar been licks the Gall quar

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⁽d) Gualterus Charleton Diatrib. de Lithiase cap. 4. sect. 2. Forestus de incertis Urinar. judiciis lib. 2. pag. 199. Nicholaus Fontanus Resp. pag. 90. Andreas Cnoeffellius miscellan. curios. An. 4. observ. 57. Turnehiserus in Examin. Urinar.

⁽c) Bartholinus cent. 4. observ. 18 & 25. Bonetus Anat. practic. pag. 969. Sanctorius in Art. parva Galeni part. 4. CAP. 49.

⁽g) Tho. Bartholnus cent. 11. observ. 85. Ballonius lib. 1. annot. in consil. 43. Salmanus observ. Anat. pag. 59. Jac. Camenicinus in Epist. Matthiole.

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Dutte, which many Authors testifie (a), and is an undeniable matter of Fact. Placerus affins, that he cut a frony Concretion our of the Liver which perfectly refembled a branch) of white Correla hollow and fill'd with black Blood (6) Rhedins found the Gall-bladder turn'd into a Bone (c). And Bursholimuscites and nstance, where two great from Tumours, one of fixteen, the other of twelve Pound weight, were found adherent to the Sufpendatory Ligament of the Liver in the fame Body (a). The Rupture also of the Gall-bladder by fharp pointed Stones or otherways, has been often found to occasion violent Cholicks (e). The fame may happen from the Relaxation of its Sphinder, whence the Gall flowing continually, and in a large quantity into the Guts, will occasion Irritations, Erofiens, and Inflammations in them of Gold, ingested and adhering to ment

Sheet of the Guest Ownwhich Galantes reas that he himfelf (uffertd-violent Pains

(b) Blaterns objettes practic lib. zarcap. 12

⁽²⁾ Scaliger exercitat. 180. num. 3. Fabritius Hildanus cent. 4. observ 44. Gerardus Blasius observ. medic. 19 pag 16. Forestus lib 19. observ. 14. Tho. Bartholinus cent. 4. hiftor. 64. Benivenius cap. 3. de Abdisif. Corfielius Gemma libs que cap. I 6 Riverius, Platerius, Baubinus, Matthiolus, Kertmannus, Ge. 170 6 . . .

⁽c) Foundes Rhedius cent. 2. obf. 96. 6 cent, His obf. 34 co 282m2 cente de defendat de tentione Hemieus centes de 140 de 1

⁽c) Ferrandus de Nophretid. & Lithiafs, fell. 10. Bertie mus med. lib. 12. cap. 14. hubble sh chingware a

The Guts quent Seat of the Chofes.

I am now come to the Guts the most the most fre- frequent Seat of the Cholicks which may be occasion'd therein by a multitude of diflick; from ferent Caules. As ift, by the Remition and many Cau-Hardness of the Excrements (f) zilly, by Winds, which swell and diftend the Guts, (g) fometimes with that Violence that they actually burft; as Benivenius affirms from an occular Proof (b), 3dly, by Crudities and Indigestions, sharp, sower, corrosive, do and under this Head are to be compris'de as Gauses of the Cholick, all sower and tharp Wines, Syders, Beer, Liquors, Fruits, Ge. 4thly, by fbarp, fower, or corrolive Humours discharged from the Blood upon the Guts; and under this Head the Humours of the Gout, Scurvy, Rhumatism, Venercal District stempers, &c. translated from other Parts upon them. 5thly, by white viscous Humours, commonly term'd Pirateus, Vitreous and Cold, impacted and adhering to the Sides of the Guts; by which Galen af-

> (f) Lazarus Riverius praza medico lib. x. cap. 1. Parans lib. 16. cap. 38. 6 65. . . was tumpanted to distinct

firms that he himself suffer'd violent Pains

of the Cholick, and was cured by a Clyster

that brought away a great quantity of

oblod 16. Egreffus lib 19. oblor v. 14. The. Bert colour

hus med, lib. 12. 616. 14.

(b) Benivenius de Abditif.

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⁽g) Willis plearmacentices rationalis feet ga cap. 1. Riverins prax. medic. lib. x. cap. 1: Pavius observ. 4. Fabritius Hildanus cent. 3. observat. lxxiv. Henricus Smetius in miscelan. curios. lib. 2. pag. 579. Pueranie in observat. folett. p. 3143 Adrimus Spigelius lib. 4. cap. 23

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Cold Vitreoni Pinnit (i) Salmuth relates a cafe wherein the whele Coton was fo replete with Pituitous Matter, that there was only a imiliPallagedefto the fize of a Ringer for the Exerciments to pals thro (kg). Cho. melainflancestanother, where the like Pi tuitous addatter adhered in little Parcels or Knobs to the outward Coats of the Guts and thereby decasion'd the Cholick (1) This Humour, the term'd Melancholick Pitwiters, and Cold by the Antients and many Moderns, who imagine it to be a Phlegmatick unachive Part discharg'd from the Bloody is in reality mothing nelfer but a whitish viscous Recrement, separated continually by the Glands of the Guts of the fame Nature with the Ferment of the Stomach, but more viscous and glutinous) ferving to the Concoction of the Aliments. and to defend the Guts from Irritations and Now if by any morbid Di-Corrofions. sposition of the Blood, from whence this Recrement is separated by the Intestinal Glands, it becomes not only more viscid and glutinous, but is also loaded with tharp or corrofive Salts, it manifest it may both adhere to the Guts by its Glutinosity, and occasion Pains in them by the Pungency

⁽i) Galen. lib. 2. de loc. Affect. cap. 2. . 300

⁽le) Philippus Salmouth conting objert, 78 Farnthise

Rathol. lib. 6. cap 9. (1) Franciscus Chomel observ. 6. Riverio communicat?

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Pungency or Corrofiveness of its Salts. But that this Humour list of ther cold in its Nature, or if it were fo, capable by its Coldness of occasioning to violent a Pain as the Cholick lamoither believe, nor can fee any grounds to imagine 6tbly. The Cholick is often occasion'd in the Guts by Inflammations, Impostumes, Ulcers (m), Schirrus's (n), Callofities (a), or Cancers (p), in them. 7ebly, By Obstructions and Tumours of the Glands, Situated in the Guts (q). 8xbly, By the Overflowing of the Gall, which not only Irritates, Corrodes, and Inflames the Skins of the Guts, but Penetrates and Infinuates itifelf into their Substance, whence hot Pains of a long continuance, and hard to be remov'd, are often occasion'd in them (r). This last I take, next to Indigestions and showed the Cuts from lames.

our var and thought

(n) Lazarus Riverius Cent. 1. Observ. xc. Schaliger ad cap. 41. lib. 1. Hollerii, Ballonins, Parad. 83.

(o) Benjuenius de Abditif, cap. 34.

(9) Georgins Dlufins, Obfero. Medie. V. Bonet. Annt. Pract. pag. 906. at an Affect. out ob as dil melad (i)

⁽m) Willis Pharmac, Rational, Sect. 3. cap. 1. Lazar. Riverius pract. lib. 10. cap. 1. Severinus de Abscesse, lib. 4. cap. 36. Adrianus Spigelius, lib. 4. de seb. semitertiana, cap. 13. Gulielmus Ballonius, Parad. 8.

⁽p) Frames Sculterius Armament. Chirurg. Part 2. Ob-

⁽i) Bilis in Intestinorum fubstantium fofe inferens. & amplo spatio imbuens & inficiens, vellicut, redit, writant, ficuti nd) Evant fine Changel observ. 6, Return communicate

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Winds, to be the most frequent Cause of the Cholick; and I am confirm'd in this Opinion, by a multitude of Diffections, wherein the Guts, and particularly the Colon, have in Cholical Cafes been found speckled with large yellow Spors, all ting'd with Gall, and sometimes to replete with it, that it might be taken out by Spoonfuls (s). To this Cause I attribute the Inflammation of the Guts, to frequent in all Cholicks, that Spigelius, who diffected vast numbers of those who died of this Distemper, affirms he never met with fo much as one, in some part or other of whose Guts he did not find a true Inflammation; which in some had spread it self throughout the whole extent of both the Guts and Stomach (t). Under this Head Blood expression Nouther the che cates

in ventriculo Ardores illos diuturnos, simili modo interdum evenire ex muculâ luteâ post mortem deprehendimus; & hoc idem in Intestinis accidere eadem experientia cognovimus; hine pendet diuturnitas & pertinacia Doloris. Platerus Practic. lib. 2. cap. 13. Riverius, lib. x. cap. 1.

valated incommon Cavic

(s) Tho. Bartholin. in Ad. Medic. Annor. 1674, 75, 76. Vol. 3. Observ. 34: Tulpius, lib. 2. Observ. 37. Fabritius Hildanus, Cent. 3. Observ. lxxiv. Alardus Hermanus Cummenus in Miscellan. Curios. An. 1673. Observ. 116. The Kerckingius Observ. Anat. 1. Hach-stetterus Decad. 8. Cas. 4. Ferrandus lib. de Nephresid. G Lithiafi, Sect. 30. Georgius Segerus in Miscelan. Guriof. An. 1673. Observ. lxxxii.

(t) In omnibus quetquot, a Colico mortuis, aperire potui, veram Inflamationem conspexi in farte Ilii, Jejuni, vel Coli:

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are to be reckon'd as Causes of the Cholick, all those Alterations of the Gall, which render it more Pungent or Corrofive; also Superpurgations and violent Vomits, which occasion too great a Secretion of the Gall into the Guts. Now if the Inflammation of the Guts, and the Overflowing of the Gall into them, are even in Wind Cholicks so generally the Causes or Symptoms of this Distemper, that it scarce ever happens without one or both of them, as 'tis evident from a multitude of Diffections made by Spigelius (t), Willis (u) and others above cited; let any one consider how improper, for the generality, bor Medicines must be in the Cholick, and whether their Contraries are not frequently better indicated and rather to be prescrib'd? orbly, By Wounds in the Guts; by Blood extravasated into their Cavity; the Urine imbib'd into, or pressing upon their Substance in cases where the Bladder happens to be burst or

li; vidi quibus omnia Intestina, & Ventriculus erant In-

flammata. Adrianus Spigelius, tib. 4. cap. 13.

(u) Cum plurium a Coli Inflammatione Defunctorum cadavera aperui, reperi in omnibus cuncta Intestina ad summum distenta & quasi à vento inflata. Willis Pharmac. Rational. Sect. 3. cap. 1.—— Ubi ipse contra celebrem Authorem Arbitror Inflammationem à Distentione, pon Distentionem ab Inflammatione fuisse productam.

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torn (w); and by any fort of Acrimonious Correfive Poifon taken inwardly. 10thly, From the violent Compression of the Guts by a Rupture, or by any Tumour, Schirrus, or Callosity in the adjacent Parts, or in their own Substance, (x) by which the natural Evacuation of their Excrements is hinder'd; Inflammations and painful Sensations frequently occasion'd. 11thly, By Worms (y) which gnaw, and sometimes cat Holes quite through the Guts; of which Riverius affures us he faw two Inftances in one Family, both caufing violent Cholicks. 12thly, From Tartareous Concretions, and Stones in the Guts, of which we read many Instances in Authors (2); Severinus tells us he found a Stone in the Colon, as large as a Goose Egg (a); Ballonius another with a hole through it to let Liquids pass (b); Faber saw a Cholick cur'd by the voiding of 233 Stones by Stools; and Schenkius made a large Col-D 4 lection

(x) Benivenius de Abditif. cap. 34. Bonesus Anat. Practic. pag. 900.

⁽v) Platerus praz. lib. 3. cap. 3.0 Tulpius lib. 3.

⁽y) Frid. Lossius lib. 2. Observ: 33. Riverius, &c. (z) Georgius Horstius, Tom. 2. lib. 4. Observ. 47. Schneiderus, lib. 2. de Cathar, cap. 7. Bonetus Anatom.

Schneiderus, lib. 3. de Cathar, cap. 7. Bonetus Anatom, practic. pag. 901. Riverius Glissonius, &c.

⁽a) Severmus de Abscessus, lib. 3: cap. 29.

⁽b) Ballonius Consil. 24, lib. 3.

lection of Examples, where Toph's and Stones had been voided by Stools. Now whether the Stones found in the Guts are

generated within their Cavity, or fall from the Liver or Gall-Bladder into them, is no great matter; fince 'tis undeniable that they are often found in the Guts, and may either by their Weight, by their sharp Points, or by stopping the Excrements, occasion violent Pains in them. Though to me it feems probable that Stones are often form'd within the Guts themselves; my Reasons are, ift, Because if they came from the Gall-Bladder, or any other Part of the Liver, they would, being but small, probably be voided with the Excrements, before they had time to grow much larger: 2dly, Because they could never be perforated (as it happen'd in the above-cited Instance from Ballonius) after their Formation; 3dly, Because Zacutus. found a Stone as big as a Chestnut, firmly and almost inseparably adhering to one fide of the Colon (c), where in all appearance it must have be-

Stones are form'd within the Cavity of the Guts.

gun its Lapidification: 4thly, Because Stones are often found in the Stomach, whither they cannot fall from the Liver, or any other Part; and if they grow in the Stomach,

⁽c) Zacutus Lusitanus prax. admirand? lib. 3. cap. exxxiii.

mach, why not in the Guts? cibly, Because Horfins affures us, that he found several little round Balls affix'd to the Colon. barden'd but not quite Stony, yet of that Concretion, that they would certainly in process of time have become Stones (d).

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Besides all these Causes, Authors relate odd Acciseveral odd Accidents in the Guts, which dents, the have occasion'd the Cholick; as that of Causes of a great quantity of barden'd Cheefe brought away by a Clyster, mention'd in Riverius (e). Another of a Man in whose Guts were found Three Pound Weight of Plumbstones and Cherry-stones, that had been lodg'd in them for some Years, related by Benningerus (f). A Third of a Swiss, who being accustom'd to eat Nails and Knives, for a shew to get Money by, died of the Cholick, occasion'd by two Splinters of a Knife which stuck in his Guts (g). And feveral others of the like are not manifelily referable to otsautan

Tho' a Pain in the Stomach is by all Au- The Stothors treated of under a separate Head from mach the the Cholick, yet as I don't restrain the Cholick. Seat of the Cholick to the Colon, nor even

orferr'd, rather to the Upper-Belly, Breath, when to the Lower-Bell. Now a

⁽d) Georgius Horfius, lib. 4. Obferv. zlvii. (c) Lazarus Riverius prax, Medic. lib. x. cap. 1.

⁽f) Nicolaus Benningerus, Cent. ii. Observ. 29. (g) Jacobus Rothius in Miscellan. Curios. An. 1672, Observ. 179.

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to all the Guts; but include under the Description of it, all violent Pains selt in the Lower-Belly, that are not apparent Symptoms of other Diftempers, except what are feated in the Kidneys, Ureters and Bladder, which I referve for a diffinct in Treatife; and as a painful Sensation either in the bottom of the Stomach, or in its Lower Orifice, are scarce distinguishable from a the Challet. Pain in the Duodenum, or in that part of the Colon which lies across immediately under the Stomach; as most of the same Causes which occasion violent Pains in the Guts, may and do often occasion the like in the Stomach, and frequently in both at the same time; and as this Pain from its Similitude to the other, is call'dothe Cholick in the Stomach, and is cur'd by the fame Remedies: therefore I shall comprehend under the general Name of Cholick, all violent Painsfelt in the Stomach, which are not manifestly referable to other Diflempers, except the Pain call'd xapore ahyia or Hearthurne, which being occa-Seas of the fion'd by an Irritation in the Superior Orifice of the Stomach, is feared, felt, and referr'd, rather to the Upper-Belly, or Breast, than to the Lower-Belly. Now a violent Pain, or the Cholick, may be occasion'd in the Stomach, by Winds, Crudities; Indigestions; by sharp, sower, or Corrosive Humours, either in the Aliments, or discharg'd

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discharg'd from the Blood: By Inflammations, Impostumes, Ulcers, Tumours or Cancers in its Substance, to all which Alterations the Stomach is by its Texture, and from Experience as liable as the Guts; by the Effusion of the Gall into its Cavity, and its penetrating and being imbib'd into its Coats (b); and sometimes by the Implantation of the Gall-duct into the Cavity of the Stomach, whence frequent Effusions of the Gall into it, and violent Pains have enfued (i). By Stones generated and lodg'd in the Stomach, of which you may read many undeniable Proofs in the under cited Authors (k). By casual Accidents, as Wounds, the Extravalation of Blood, Corrofive Poisons; the swallowing of Substances not digestible, which lie with a Weight and heavy Load upon the Stomach, such as v. g. a hard boid Rumediately run beckinto their Beller.

⁽h) Platerus lib. 2. Observat. pag. 436, 468. Tho. Bartholin. in Act. medic. Annor. 1674, 75, 76. Vol. 3. Observ. 34. Solenander consil. 16. Sect. 5. Willis Pharmas. Rational. cap. 1.

⁽i) Zacutus Lusitanus prax. admirand, lib. 2. Observ. 1. Vessalius, lib. 5. cap. 8. Cabrollius Observ. Anat. 6. Haferus, lib. 3. cap. 3.

⁽k) Bonesus Anat. Practic. pag. 781. Schenkius lib. 3. Observat. Cardanus contrad. 9. lib. 2. Tract. 5. Haferus; lib. 3. cap. 1. Simon Sabulzius in Miscellan. Gurios. An. 1673. Observ. 86. Georgius Horstius, Tom. 1. pag. 1142.

Rhind of smoak'd Bacon, which remain'd in a Man's Stomach for two whole Years, and occasion'd continual Pains of the Cholick, till thrown up by a Vomit, as 'ris related by Hildanus and Riverius (1): that of a Pound of Ginger found in the Stomach of another, which occasion'd the like Diforders (m). Lastly by Worms, or Lice, gnawing the Stomach (n): And Authors give us Instances of other Animals, as Toads, Serpents, Lizards, &c. breeding within the Stomach, and therein occasioning violent Pains. Gesnerus (0) relates, that in and about a Town in Hungary, call'd Zifca, near Three Thousand People died, Anno 1551, of intollerable Painsoccasion'd by Serpents and Lizards bred within them; which when these miserable People lay down in the Sun, would often peep their Heads out at the Patients Mouths and immediately run back into their Bellies.

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⁽¹⁾ Hildanus, lib. 4. Observat. 33. Riverius pract. lib. 9. cap. x.

⁽m) Platerus Observat. lib. 2. pag. 1435.

⁽n) Hercules Saxonia pralect. practic. part. 2. cap. 7. Heurnius de morbis capitis, cap. 7. Zwingerus Theatr. vita humana, pag. 525.

⁽o) Gesnerus Historia Animalium, lib. 2. cap. de Lacertis.

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Bartholinus, and Wolgnad (p) affure us, that one Catherine Geileria, who died Annas 1662, in the Hospital of Altenburg, did for Twenty Years together vomit up inany Toads, and a (great deal of) fluff like to their Spawn, which occasion'd violent Pains of the Cholick in wher Stomach. These indeed are wonderful Causes of the Cholick, and mention'd here, not as fuch which I suppose will ever occur again, or ought to be enquired after; but to imprint, by the Extraordinariness of the Facts. in the Memory of Practitioners, that a Cause seldom thought of, viz. Worms and Infects within Human Bodles, are very often the Original Caufes of Cholicks, Convulfions and Epilepfies, (q) not only in Children, but in Adult Perfons. But if any one is pleas'd to dispute the Truth of these strange Facts, I can say no more than that they are attested by Authors of good Repute, whose Books and Pages I have cited, and may be turn'd to. to me they feem both possible, and no ways inconfistent with the usual Course of Nabrilianus Eveninens in Aufcellan Cario.

(p) Bartholinus Cent. 4. Histor. 19. Welgnad in Anat. practic, Boneti, lib. 3. Sect. 17.

Oblero. 45

250. Kircherus as Palle Sect. 1. cap. 7. Union.

t) 100, Bartbeland, Cent.

⁽⁹⁾ Bonetus Anatom, practic. pag. 279, 242. Johannes Rhodins Cont. 1. Observ. lix. Frid Lossius, lib. 2. Observ. 33.

ture. For if the Eggs of Worms are hatch'd. and produce those Insects, not only in the Stomach and Guts, but even in the Blood it felf, as it must be when Worms are found in the Head (r), Liver (s), witreous Humour of the Eye (t), and in the Ventricles of the Heart, which is very common in Dogs, and fometimes happens to Men: If it is usual to find real live Serpents a Foot long in the Kidneys of Wolves (1) : If Doctor May (w) found a Snake in the left Ventricle of alyoung Gentleman's Heart, who died in London, Anno 1639; and Hola lerius a Scorpion in a Sinus of the Brain (x); why is it not possible that the Eggs of Water Serpents, Lizards and Toads, being fwallow'd with the Water that was dranks might find a requifire and just Temperathre of Heat to hatch them in the Stomachs of those miserable People? which is undeniable, dif what Gefnerus (y) adds: godd Repute, whole Books and Pages I

cont. 1. Observ. lxxxiii.

have cited, and may be turn'd to,

'(s) Christianus Frommanus in Miscellan. Curios. pag. 250. Kircherus de Peste Sect. 1. cap. 7. Galen.

(t) Tho. Bartholinus, Cent. 3. Observ. 48.

(u) Gaspar Baubinus, lib. 1. de Corporis human i fbricâ, cap. 17. Joannes Baubinus Trast. de Luporum rabie, pag. 77. Carolus Stephanus de Agricultura, lib. 7. cap. 1.

Marcus Severinus de Abscessu, pag. 1281.

forms Histor, Animal, lib, 2.

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be trudicient of the politication of a young lady time live Serpents were foundly in her Secondary time their Coats, and a minimum of the content of the con

Having established for many different Causes of the Cholick, most of them from A Matteriof Fact, Diffections, and Oqular Proofs, I will, for the Hase and Convenience of my Readers, range them under distinct the Heads; and in the following Chapter explain how, and by what Mechanisms, each of them is capable of producing that violent Pain call'd the Cholick.

Womb fal from their natural Situations, and presta silodo ed ea e u A D ed T

Natures in the Guts and Stomach; under ration of this Head are comprised all sharp and sow'r causes of Liquors; green Fruits, and Mears of ill the Cholick: Digestion

Guts or Stomach. down of round anong?

3. The Hardness and Retention of the Extrements.

discharg'd from the Blood upon the Guts, Stomach, or any Part within the Lower-Belly.

Rhumatism, Venereal Distempers, &c. tran-Stated from other, Parts upon the Gutt or Stomach.

Descriptions the Abdition 1995.

6. The

The Causes of ods

the Guts or Stomach, its infinuating and penetrating into their Coats, or into other Parts contain d within the Lower-Belly. Also all Alterations of the Gall, which render it more irritating and Corrolive.

on of the Guts, of the Stomach, or of any other Parts within the Lower-Belly, by Tumours, Schirrus's, Stones, &c.

8. The Rupture, or Relaxation of Ligaments, whereby the Liver, Spleen, or Womb fall from their natural Situations, and press upon other Parts.

9. Inflammations, Impostbumes, Ulcers, or Cancers in the Peritonium, Renal Glands, Panereas, Liver, Spleen, Guts, or Sto-

Swellings, Obstructions, or Schirrus's in the Peritonaum Mesentery, Caul, Pancreas, Spleen, Liver, Womb, Guts, or Stomach.

or Stones, in the Pancreas, Liver, Spleen, Guts or Stomach.

12. Viscous Pituitous Humours adhering to the Guts.

Part to another; as of the Liver to the Disphragm, the Panereas to the Spleen,

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ons wh or Stomach, whereby the Superior Parts are fometimes weigh'd down with that Force, as to occasion violent Pains and Inflammations in them in a prive of name i

14. The Preternatural Position of Parts; as of the Gall-dust inserted into the Stomach. The Cartilago Ensiformis, or Xiphoides, grown into a Bony Exercicence, and inverted upon the Stomach.

15. A Caries in the Bones of the Lower-Belly, which (tho' very rare) has sometimes occasion'd violent Pains of the Cholick (a):

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ie/ 0, SF ? 16. Sudden Colds, or Passions, in weak

and tender People.

17. Worms, and other Infests, which gnaw and sometimes eat Holes thro' the Guts, Stomach, or other Parts within the Lower-belly: A Cause much more frequent, even in grown up People, than generally imagin'd.

18. A Pestilential Constitution in the Air, which renders the Cholick Epidemical; as Paulus Ægineta, and Sydenham ob-

serv'd.

19. The Stone, Gravel, or Inflammations in the Kidneys, Ureters, or Bladder; which I mention here only as Causes that very frequently impose so far upon the Patient

⁽a) Benivenius de Abditis, cap. 79.

Patient and Physician, as to make them mistake one Cholick for another, as it happen'd to Galen in his own Case (a). For I design to write a distinct Treatise of the Nephretick Cholick, which I had almost sinish'd above Six Years ago, when I had the Misfortune to loose all my Papers, wherein were a Multitude of Experiments my present Practice won't allow me Time to renew in haste.

elly, which (the very tere) has

(a) Galenus, lib. 2. de Loc. Affect. cap. 5.

rs. Sudden Colds, or In Jense in wester

and tender l'esple.

Fr. Worns, and other lessels, which cases and fometings ear troics thro' the source, Stomach, or other l'ets venna them

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18. A Poblemial Continuin in the

Air, which readers the Cholick Epilenie cal; vs. Parlin Aleineta, and Spelviden ab-

rew'd.
19. The Stone, Gravel, or Infanymati-

AnAirHed Kidneys, Userson, on Electrics; which I mention here only as Causes that

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that all Scalarious whatfoeverage or

Mechanical Explanations of the several Symptoms and Accidents of the CHOLICK.

Sexte of Pain role of to the Part: confe-IN the precedent Chapter I establish'd I many different Causes of the Cholick: In this I shall endeavour to account for their Effects, and to explain how, and by what Mechanisms, they are capable of occasioning such exquisite Pains. To do this clearly, it will be necessary to premile, and settle an Idea of Pain in generate not informable, and always nadar

Pain is by all Authors describ'd to be; a troublesome Sensation, proceeding from a Solution of Continuity in the Part; wherein if I differ from them, 'tis not out of any Affectation of Novelty, or to appear fingular, but from a fincere Defire to discover and deliver the Truth in every thing, as far as it is known to me, without suffering the Authority of others to prevail over my Reason. Wherefore I describe Pain to be A trouble some Sensation, occasi-E 2

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on'd by a violent Reflux or Undulation of the scription of Spirits, from the Part affected up to the Brain. Willis (a), and all Authors unanimously agree, that there must be a violent Motion in the Spirits, to occasion the Sense of Pain: I have prov'd (pag. 25.) that all Sensations whatsoever are made in the Brain, and only referr'd to the Part; therefore it evidently follows that this violent Motion must be communicated up to the Brain, before it can occasion the Sense of Pain referr'd to the Part: consequently in the Perception of Pain, every thing does of necessity always happen that is mention'd in this Description of it; viz. a violent Motion of the Spirits, and a Conti-

The Soluti-nuation of that Motion from the Part up to on of Conti-the Brain. But it is not so of the common muity not necessary to the receiv'd Description of Pain, for a Solution of Continuity, tho' it may often hap-Sense of Pain.

Cap. 6.

pen, is not inseparable, and always necesfary to the Sense of Pain; which I prove by the following Matters of Fact. 1st, That a Feather drawn gently over one's Lip, will occasion a troublesome Uneasiness or Pain, without any Solution of Continuity. 2dly, If the Solution of Continuity were that which occasion'd Pain, it would follow, that the greater the Sodoitable Authority of others to physis o-

(a) Willis de Medicamentor. Operat. Part. 2. Sect. 3.

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lution, the greater would be the Pain; whereas Experience convinces us of the contrary: Por if you cut a Tendon or Nerve, the Pain is moderate and foon ceases; if you prick or stretch them, it shall be violent and of long Continuance. In an Impostume that suppurates, there is a much greater Solution of Continuity. but much less Pain, than when it began with an Inflammation. The Stone in a Kidney shall occasion violent Pains, whilst the Substance of the Kidney continues united, which entirely cease, when it is difsolv'd into Corruption. Opium causes the Ceffation of Pain, but not the Reunion of a Solution in the Continuity of a Part; on the contrary, it obstructs the Cure of Wounds. And to use a familiar Comparison, there is the same Reason to say, that the Stretching of a String does not suffice, but that the Breaking of it is necessary to produce a Sound; as that the Irritation or Stretching of a Nerve, cannot create a Pain without the Solution or breaking of it. Again, the Solution of any Muscular, Tendinous, or Membranous Fibres, can contribute nothing to the Sense of Pain, because not they, but the Nerves are the Organs of the Sense of Feeling. And if you will have the Nerves to be once broke, they can be no longer capable of transmitting any Motion, (either by the Spirits concontain'd in them, or by their whole Substance) from the Part affected up to the Brain, wherein all Sensations are made; confequently there could be no fuch thing as a continual persevering Pain; but every distinct Sensation of Pain would terminate the same Moment it began, that is, with the Solution of the Continuity, or the breaking of the Nerve; which is contrary to daily Experience. From these Reasons I conclude, that the Solution of Continuity is no ways requisite, nor has any relation, to the Sense of Pain; but that all Pain is occasion'd by the Irritation or Pressure of the Nerves in the Part affected; whereby a violent Motion, Reflux, or Undulation of the Spirits is made from that Part up to the Brain. Indeed Willis (a), tho' he affirms a Solution of Continuity to be always necessary to the Sense of Pain, yet allows that the continuous Parts, especially the Nervous Fibres, are not broke, but that it fuffices (as I fay it does) to have them irritated, press'd, or stretch'd: But he will have it, that the Spirits contain'd in the Nerves are thereby torn afunder from their mutual Cohæsion. and diffipated; in which Division and Dissipation of the Spirits, he seems to edildest have the Nerv

⁽a) Willis de Medicamentor. Operat. Part. 2. Sect. 3.

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stablish both the Solution of Continuity. and the Sense of Pain, residing and felt in the Part it self. But no Division of the Spirits, which are a Liquid Body, can be truly stil'da Solution of Continuity, which is only proper to folid Parts. And he must certainly be mistaken in his Notion of Pain, when he affirms that it confifts in the Disunion and Divulsion of the Animal Spirits, whereby the Nerves are stretch'd and contracted. (a) To which he pretends there is absolutely requisite either a Mixture of heterogeneous Particles in the Spirits themselves, or else the Action of some outward Cause penetrating thro' the Pores of the Fibres. I say he must be mistaken herein, both as to the Effects and the Causes; because it is undeniable that I can at any time occasion a violent Pain in any Part of a Body ever so sound and well constituted, by the bare Pressure of my Finger; and no body can suppose heterogeneous or morbid Particles, to be mixt every where with the Spirits in the foundest and healthiest Constitution; nor that the Pressure of my Finger does convey any thing thro' the Pores into the Nerves; wherefore it remains that fuch a Pressure can occasion a Pain no otherways, E 4

⁽a) Willis Pars Pathol. Cap. 1. de Cephalalgia.

than by forcing the Spirits to flow in a violent Motion from the Part affected up to the Brain; which being the Nature of all Liquids, is plain and easie to be conceiv'd, and must necessarily happen, if all Sensations are made in the Brain; as they certainly are, and not in the Part itself, Willis (a) and others fallly imagine, when they pretend that all Pains are occasion'd by the Contractions and Convulsions of the Nerves within the Part affected. For what Proof can any one bring me, that there ever is a Contraction in the Nervous Fibres alone? Or what Reason is there so much as to fancy it? since Willis himfelf (b), the Affertor of it, and all Anatomists, are convinc'd from the Experiment of tying a Ligature upon the Arteries, and from other Reasons, that the Spirits contain'd within the Nerves, whether duly constituted, or vitiated by heterogeneous Mixtures, are not capable of making the least Contraction in the Muscles, but require the Concurrence and Mixture of some other Particles from the Blood to effect it; (which Mixture is made within the Pores of the Muscular Fibres, not within the Cavities of the Nerves) how then shall the Nerves be contracted? or why

(a) Willis Pars Pathol. cap. 1.

⁽a) Willis de Morbis Convulsivis. Cap. 1.

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why should any one believe they ever are? when the Fact is neither feen, prov'd, nor necessary upon any account, especially to the Sense of Pain, which, as I have faid, is an Idea or Conception of the Mind. that fomething troublesome and noxious affects such a Part; occasion'd by a violent Reflux or Undulation of the Spirits from that Part up to the Commune Senforium, or Corpus Callofum of the Brain, wherein the Spirits stretch, press, or make a sudden and strong Impression (which remains fixt there for the Use and Office of Memory) on the Origin of that or those Nerves which belong to the Part affected; which Pressure, Stretching, or Impression makes the Soul fenfible that the Caufe lies in that Part where such a distinct Nerve terminates, and that it acts with Violence; and from the Soul's Knowledge that such a particular Nerve belongs to that Part, and to no other, it is, that the refers the Pain to that Part. The final End of which is, that the other Members which are capable of effecting it, may upon this Knowledge use their Endeavours to remove the Cause from the true and individual Part affected. This to me seems a clearer, fuller, and more mechanical Explanation of the Sense of Pain, than any I have met with, and is carrying it as far as possible. For how and in what manner Material Bodies,

Bedies, as the Animal Spirits are, can act upon an Immaterial, Inextensive Being, as the Soul is, is beyond the Reach of Human Thought; it can only be imperfectly accounted for, by faying, that God has united the Soul to the Body with such Laws, that whenever such and such Motions of the Spirits are made in the Brain, then the Soul shall be affected with such an Idea or Sensation. And from the different Degrees and Modifications of thefe violent Motions of the Spirits up to the Brain, proceed the distinguishable Perceptions of different Sorts of Pains; such as which belongers the Para effected; white

A Tensive 1. A Tensive Pain, which induces an I-Pain, how dea of a violent Stretching in the Part, ocaccasion'd casion'd by a sudden and preternatural Distention of it. This Distention equally affects the Nerves of that Part, as its fle-Thy or muscular Fibres. The Nerves can't be stretch'd out into a longer Extent, but that the Diameter of their Cavities must be lessen'd in Length, nor their Cavities so lessen'd, but that part of the Spirits contain'd in them must flow into some other Place; not into the Part affected, for that being already fill'd to a preternatural Repletion, it presses every thing from it; confequently no other way is left for the Spirits to flow, but backwards up their own Channels, into the Corpus Callefum Cere-

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Cerebri; which being a common Bason, or Receptacle for the Spirits, there is both Room for them in it, and thither their violent Reflux or Undulation is uleful and necessary, to cause such a Pressure on the Origin of those Nerves, as shall both make the Soul sensible that something preternatural affects that Part, and also of the manner of its affecting it; which is, that a number of Fibres contain'd within the Circumference of such a Part, are all ftretcht with Violence at the same time. Thence the Soul conceives the Idea of a Tensive Pain, very distinguishable from that of a Pressive Pain, occasioning the Con- A Pressive ception of a heavy Load weighing upon Pain. the Part; which tho' it may at another time affect all the same individual Fibres and Nerves in the self-same Place, shall create a quite different Sensation, from the different Undulation of the Spirits. proceeding from the different Action of the Causes, which in the Tensive stretch the Nerves of the Part, in the Pressure weigh upon them, or force them against some other Body that resists. These and all other different Sensations of Pain, are very difficult to be rightly diffinguish'd afunder, when seated in the inward Parts of the Body (of which we have no clear Ideas) and it is only from Experience, and a Comparison

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parison to what we have observed in the outward Parts, that they are in some manper known and diftinguish'd. For Example, that fince upon the violent swelhing of my Hand, I felt that Modification of Pain, I call Tensive, if the like Sense of Pain happens to any inward Part, I immediately imagine there is fuch another swelling in that inward Part, as I faw in my Hand. The Sensation of a Tensive Pain may be occasion'd in the Cholick, either by Winds which swell and stretch the Guts or Stomach; by the Rarefaction of Humours in any part of the Lower-belly; by the Recention and Hardness of the Excrements; by Ruptures, Inflammations, Obstructions, or Tumours; by a great Collection of wat'ry Humours within any Cavity, or between any Skins; by Stony Concretions; or by the weight of an Inferior Part, pulling down a Superior one with Violence, as the Liver may the Diaphragm when adherent to it. The Preffre or Heavy Pain may happen in the Cholick, by the Relaxation or Rupture of Ligaments, whereby the Liver, Spleen, Womb, &c. may fall from their natural Situations, and press upon Inferior Parts; or by Tumours, Schirrus's, Stones, &c. pressing the adjacent Parts against any firm Substance.

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2. A Boreing Pain, wherein it fcems to A Boreing the Patient as if an Augre were fcrew'd Pain. into the Part, is occasion'd by whatfoever Cause begins its violent Action upon the Surface, and penetrates by degrees deeper and deeper with the same Violence far into its Substance. This may happen in the Cholick, when the Gall, or any other corrofive Humour, is imbib'd and penetrates into the Coats and Substance of the Guts, Stomach, or other Parts within the Lower-belly.

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2. A Pungent or Pricking Pain, is that A Pungent which represents to us the Idea of some Pain. Sharp pointed thing penetrating suddenly into the Part. This may happen in the Cholick, either from the Action of Sharp, Acid Humours, which do actually perforate the Nervous Fibres with their acute Points, like Needles; or by Erifipelatous Inflammations in the Guts, or other Parts of the Lower-belly, which when extended to a very narrow Circumference, occasion the like Sensations; as is daily experienc'd in the Erifipela of any outward Part, where, though the real Caufe with the is visible to the Eye, we can't but fancy we feel the pricking of a Needle in the Part. This Sensation may also be occasion'd by the Suppuration of any Tumour within the Lower-belly, which discharging its corrupted Humours thro' a small Orifice

Orifice of the Skin, contracts all the Pain into that narrow Compass; and lastly, by the Sharp Points of Stones lodg'd in any Part of the Lower-belly.

Pain.

4. A Launcing Pain, is that wherein it feems to the Patient, as if some sharp edg'd Tool did cut thro' the Part suddenly and with Violence at repeated Intervals; or elfe that something Tears it by Starts and Jerks. This Sensation may happen, either when the Pains of the Cholick proceed from a Cancer in the Lower-belly, whose fix'd corrolive Salts being put into Motion irritate and vellicate the Nervous Fibres which run across its Substance; as by daily Experience we find it happens in the Cancers of the Breast, and of other outward Parts: Or elfe by the Suppurazion of any inward Tumour, which fermenting, and emptying itself by Intervals, irritates the Nervous Fibres of the Skins it is discharg'd thro', by Starts and Terks, answerable to the Intervals of its occation the like Sentennis, noningsya

A Burning Pain

3. A Burning Pain, is occasion'd by the violent Fermentation of the Blood, or Humours, in any Part; which by the uninterrupted Motion of their Salts continually irritating the Nervous Fibres, induces the Sensation both of Heat, and of innumerable little Prickings at the same time. This Burning Pain may happen when-

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foever the Cholick is produc'd by a very violent Inflammation, or by a Corrofive Ulcer.

when Irritations of different Degrees, are Pain made in distinct and separate Fibres of the same Part, at one and the same time; whereby it seems to the Patient as if many Teeth tore and ground it. This Sensation may arise in the Cholick when different Humours, as those of the Gonz, Scurvy, Gall, and Rhumatism happen to corrode the same Part in distinct Fibres, and with unequal Force at the same time. But this, neither as to the Causes, nor as to the manner of Production, do I affert as a thing positive and certain, but only as a probable one.

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uneasie throbbing Motion, returning by Pain, short Intervals, is selt in the Part. This may happen in the Cholick either by the Extraordinary Dilatation of the Great Artery, by the Rupture of a small one, or by an Obstruction that hinders the free Circulation of the Blood, thro' the sleshy Fibres, from the Arteries into the Capillary Veins; whereby the Blood being stop't in the Part, and fresh Supplies continually prest upon it from the Heart, it must inevitably swell and stretch the Fibres of that Part, at the same Intervals that the Heart beats, and the Pusse

Explanation of the Symptoms

is felt in the Arteries. This Beating Pain will be perceiv'd in the Lower-belly, whenfoever the Cholick is accompany'd with, or occasion'd by, any of these three Gauses; viz. the Dilatation or Rupture of an Artery, or an Obstruction; Instances of which may be seen in the undercited Authors (a).

A Tearing

8. A Tearing Pain, wherein it seems to the Patient as if the Fibres of the Part were torn from their adherence to each other, happens when the Salts concreted into large Particles, or any Humours press between, and force asunder the little Nervous Fibres, which were closely united and adherent before.

Now whereas these Causes, acting with Violence, occasion a sudden and strong Undulation of the Spirits (tho' after different Modifications) from the Part effected up to the Brain, a Pressure, Divulsion, or Impression is thereby made in the Corpus Callosum Cerebri upon the Origin of the Nerves belonging to the Part affected, whereby the Soul, according to the hidden Laws of its Union with the Body, is made sensible both of the Pain, its different Modification, and of the Place or Part affected.

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⁽a) Michael Doringius ad Sennertum Cent. 1. Epist. 25.
Bontius observat. viii. Columbus Anatom. lib. 20. Fallopins lib. de Tumor. praternatural. Cap. 14.

The chief Symptom of the Cholick, is a violent Pain in the Lower-belly; which may proceed from any one of the several Causes already mention'd, occasioning a sudden and violent Reflux or Undulation of the Spirits, from the Part affected up to the Brain.

When the Pain spreads itself all over the Belly, 'tis occasion'd for the most part whence by Winds, which swell and stretch the Pain all owhole Extent of the Guts; whereby vio- ner the Belly. lent Undulations of the Spirits are made at one and the same time from almost every individual Part of them, up to the Brain: It may also be occasion'd by the Irritations of Crudities and Indigeftions; by Sower or Corrolive Humours discharg'd from the Blood; by the Humours of the Gout, Scurvy, Rheumatism, &c. tranflated from other Parts upon the Guts; or by the Overflowing of the Gall into them. Any of which Causes affecting the whole Extent, or greatest part of the Guts, will occasion violent Undulations of the Spirits from innumerable Places at once up to the Brain, and consequently a Sensation of Pain, indistinctly referable to so many Places, that it seems to affect the whole Circumference of the Lower belly.

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A Fixt Pain of the Cholick will then A fixt Pain happen, when any one of the several of the Cho-Causes above-mention'd, constantly affects ick.

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one particular Bowel, or some one Distinct Part of the Guts; whereby violent Undulations of the Spirits are continually made from that Part only up to the Brain. The manner how a fixt Pain bores like an Augre, has already been explained.

A moving

The Pain of the Cholick, which, be-Pain of the ing fixt for a while in one Part of the Belly, removes on a sudden, and is felt in another Part of it, and thus often changes its Situation from Place to Place, is occafion'd by Winds, Indigeftions, or Morbid Humours contain'd within the Cavities of the Guts; which being stopt for a while by their Valvules in one Part, then forc'd by their Vermicular Motion into another, where the like Valvules stop them again; their violent Action upon the Nerves causes the Pain to be felt in that Part to which they remove, and wherein they are ftop'd.

The Texture of the Colon is particu-From whence the larly remarkable, as different from that of Sen fation all the other Guts: for besides its exterior of some-Membrane; (which I take, and a very thing binding the Bel. Learn'd Author (a) affirms to be the Exly or Guts. pansion of the Pleura, not of the Peritoneum, as is generally imagin'd) the Long

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and Orbicular Fibres; the Nervous Coat: and Glandulous Membrane, which are common to it and all the other Guts; it has also a Ligament of Flesby Fibres about half a finger broad, running along its whole length, and many Orbicular Ligaments which from space to space divide this Gut into little Cells or Cavities, resembling a Glass Incorporator; the use of which is, to retain the disfolv'd Aliments, 'till all the Chyle is absorb'd into the Lacteals. For 'tis matter of Fact that they pass quick thro' all the other Guts. which are generally found empty, and make the longest aboad in this. Now if the Fibres of these Orbicular Ligaments happen from any Cause to be put into violent Contractions or Convulsions, 'tis manifest that they will bind and streighten the Cavity of this Gut, in the same manner as if so many Cords were ty'd hard round its outside, and occasion the like violent Undulation of the Spirits from those Parts up to the Brain, as a Cord ty'd hard round any outward Part will do: whence the Soul, which had clear Ideas of the Causes which bound the outward Parts, and of their manner of acting, imagines from the fimular Undulations of the Spirits up to the Brain, that a like Cause affects the Inward Parts, of which the has no clear Idea; and thinks that some Part

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Part within the Belly, (as in reality it then happens to the Colon) is pull'd close together with Violence by something that furrounds it.

The Swelling of the Belly in so violent swelling of a manner, that the Muscles and Skins feem ready to burst, if 'tis but of short the Belly. Continuance, can be occasion'd by nothing but Winds, which distend the whole Cavity of the Guts in an extraordinary manner; whence they press the Muscles of the Abdomen outwards, and keep them violently stretch'd for the time, that those Winds continue to blow up the Guts: If permanent, and of long Continuance, they must be occasion'd either by a Vast Collection of Watry Humours between some Skins, or within some Bowel of the Lower-belly; or by an extraordi-

its inward Parts.

Whence the the Belly inwards.

That these same Muscles are sometimes drawing of drawn inwards, so close to the Back-bone that scarce any appearance of the Belly remains, and that one may even feel the Pulfation of the Great Artery which lies underneath all the Guts, can be attributed to nothing, but a violent Contraction, or rather permanent Convultion in them, whereby they press the Guts, Liver, Spleen, &c. up towards the Breast, and leave the bottom of the Belly almost empty. The

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matter of Fact is undeniable, many Authors testific it, and I have met with it more than once my felf. But why fuch violent Contractions or Convulsions should happen to these Muscles in the Cholick, and to no others, is not easie to account for. The most mechanical way of doing it, is to suppose, that, as this seldom happens, 'tis only in those Cholicks, which are occasion'd by Viscid, Glutinous Humours, impacted and adhering to the Coats of the Guts; and that the Blood partakes of the same Viscidity, whence the Copula Explosiva separated in the Pores of the Muscles for their Contractions, becomes also more viscid and glutinous than naturally: This granted, I say the Reason why these violent Contractions or Convulsions happen to the Muscles of the Abdomen, and to no others, is because the Spirits undulating, with Violence from the Guts affected, back to the Brain, are determin'd by their Angle of Incidence to flow precisely into the Muscles of the Lower-belly, where meeting with a Copula Explosiva preternaturally viscid and glutinous, the nitroacrial Particles of the Spirits cannot cause that sudden Explosion they are us'd to make, with the Sulphurous Alkaline Recrement of the Blood duly constituted, (whereby both are foon attenuated into lesser Particles, and evaporated partly into

the Blood, partly into the Air, thro' the insensible Pores of the Body) but make a Swelling and Rarefaction in the Pores of their Fibres, like to the Fermentation of Dough; by which these Muscles are kept in one continu'd Contraction or Convulsion for a long time together; and thereby it is that they press all the loose Parts contain'd within the Lower-belly upwards, and become themselves almost contiguous That a violent Irrito the Back-bone. tation of the Guts determines the Spirits to flow by their Angle of Incidence into the Muscles of the Abdomen, preferable to those of any other Part, seems very probable from the Mechanism of Vomiting, where a violent Irritation of the Stomach, which is of the same Structure, and but one continu'd Substance with the Guts, always determines the Spirits into the Muscles of the Abdomen; and that this Determination is made by an Angle of Incidence, I have endeavour'd to prove in a former Treatise of Vapours, from pag. 46 to pag. 61. 2d Edition.

Sharp and Burning Belly how occasion'd.

The Sharp and Burning Heat in the Belly, which often accompanies the Cho-Pains in the lick, proceeds either from an Inflammation of the Guts, which is fo frequent in this Distemper, that (as I have shewn in the foregoing Chapter) it seldom or never is without it; or from the Overflowing of

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the Gall into the Guts, whose Acrimonious Salts, irritating and corroding their Coats, cause a Hot and Burning Sensation in them; this latter I take to be the more frequent Cause of that Heat; for though the Guts are seldom or never found without an Inflammation, in inveterate Cholicks, it does not thence follow that it must happen at the beginning of it, nor is it likely it does; and yet this Heat in the Belly is frequently felt at the first Invasion of the Cholick. But there are sufficient Grounds to believe that the Gall does for the most part overflow into the Guts, from the very first Onset of this Disease; especially when its Cause resides in the Guts themselves: For either Winds or Morbid Humours irritating them, must make the Spirits to flow with Violence, by the little Nerves of Communication from the Duodenum, into the Villi Fibros of the Gall-Bladder, whereby they being contracted will squeeze forth the Gall in greater quantity than usual into the Porus Cholidneus, whose oblique Insertion into that Gut renders it a Mechanical Neces-fity, that at every Dilatation succeeding the Contractions of the Dundenum, the Mouth of the Porus Cholidocus must open, and pour forth into the Guts, what quantity of Gall was contain'd in it.

Costive,

Costiveness from whence.

Costiveness proceeds either from the Inflammation of the Guts, or from a preternatural Heat in the Bowels; by which the Excrements are dry'd and bak'd into hard Balls within the Cells and Cavities of the Colon; and as these Balls, form'd after the mould of those Cells, are broader in the middle than at each end, they are thereby detain'd by the Orbicular Ligaments of the Colon, with a force Superior to that of the Vermicular Motion of the Guts, which us'd to expel them out of the Body when Liquid or Soft; and as the fresh Excrements supply'd from the Food, are stop'd by these hard Balls in the Colon, they by the Heat and Evaporation of their Serous Particles do also grow hard, and diftend the Skins of the Guts with that Violence, they become incapable of Contraction, and confequently of protruding forth the Excrements by Stools. Another cause of this Constipation is, the Distention of the Guts by Winds, which swelling their Coats violently outwards, very much lessen, or totally hinder that Vermicular Motion of them, by which Stools are occasion'd. Worms gather'd into Knots; large Stones in the Guts; or the Pressure of a Tumour or Excrescence upon any Part of them, may stop the Excrements from descending, and thereby occasion this Constipation. When h

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When a Patient afflicted with the Cho-Whence a lick makes but little Water, 'tis because suppression the Colon being adherent to the right quantity of Kidney, and ever contiguous, if not ad- Urine. herent also, to the left Kidney, whatever Heat or Inflammation happens to that Gut, is communicated to, or affects the Plexus Renales, and Nerves of the Kidneys, whereby the Spirits contain'd in them, being put into a continual and violent Motion, keep the Excretory Sphincters of the many Glands which compose the Kidneys, in one continu'd Contraction, and thereby hinder the Evacuation of the Urine; as we see by daily Experience that the Inflammation of the Womb. for of the Proftate in Venerial Distempers) hinders the Urine already separated in the Bladder, from being freely evacuated.

A Fever is properly described to be a Description violent Commotion and Heat of the Blood, of a Fever-accompanied with an extraordinary Frequency of the Pulse, and a Depravation, or Lesion of the natural Functions of the Body. This may happen to the Cholick from almost any of its Causes.

For all forts of Crudities, Indigestions, Camps of and Morbid Humours, whether volatile it is the or fix'd, being Heterogeneous (that is of Chelick. a different Nature) to the Blood, may after repeated Circulations and Divisions augment

augment its Ebullition; Inflammations, Impostumes, Ulcers, or Cancers, may supply Acrimonious Particles to inflame the Blood; in fine, every thing that caufes much Pain may create a Fever. For Pain being the Effect of violent Undulations of the Spirits up to the Brain, it follows that they must thence flow in greater quantities into other Parts of the Body, and mixing with the Blood augment its Ebullition; but when the Cause of Pain is feated in the Lower-Belly, the Spirits are thereby more immediately determin'd into the Liver, whence more frequent Contractions of its Fibres, and a greater Secretion of the Gall into the Duodenum than usual and requisite, will enfue. And as an Effusion of too much Gall into the Guts, will by its Irritation occasion new Determinations of the Spirits up to the Brain, from whence they flow again into the Blood; and will also render the Chyle Acrimonious, both these concur to augment the Fermentation and Ebullition of the Blood, and encrease the Feaver.

The Mechanism of the frequency in the Pulse. But how, and by what Mechanism, this extraordinary Fermentation of the Blood causes a preternatural Frequency in the Pulse, is what no Body that I know of, has satisfactorily accounted for. Willis (a) says that

⁽a) Willis, cap. 3. de Febrib.

the Blood boiling with Impetuosity is hasten'd forward by a vehement and Quick Pulse, least too great a Quantity of it in the Heart should cause a Suffocation. Which is at most but assigning a final Cause, without explaining the manner how 'tis produc'd; which I account for thus,

The Pulse cannot be more Frequent, but because the Heart squeezes the Blood into the Arteries (and thereby elevates them) at quicker intervals than usually; the Heart can't effect this, but by its own more frequent Contractions; and the Reason why its Contractions are more fhort and quick, or frequent, is because the extraordinary Fermentation of the Blood has attenuated and volatiliz'd the Sulphurous Alkaline Recrement, or Copula Explosiva, (which, together with the Nitro-aerial Particles of the Spirits, causes the Contractions of the Heart) to: that Degree, that it presents itself oftner, enters more easily, and makes its Explofion more quick and fudden, than it us'd to do in the natural Constitution, when the Blood was calm.

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Thirst, Restlessness, and Want of Sleep, are Symptoms frequent in the Cholick.
Thirst is a troublesome Sensation of some-Description thing bot and dry affecting the Palate and Seat of Mouth; wherein its Caule is actually seat-Thirst.

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ted, and not in the Stomach, as Willis (a), and all Authors, I have hitherto met with imagine. In Proof of which 'tis sufficient to alledge, that this Sensation is always referr'd to the Mouth; consequently the Soul, the best Judge of our Senses, knows that to be the Seat of it. Nor is the Reafon alledg'd by many Authors, viz. That one then finds the greatest Relief from Thirst, when the Water drank is got down into the Stomcah, of any Force: For it only proves that the Water being detain'd there, and affecting a large Circumference, induces a more grateful Coldness in the Stomach, (wherein there is also much Heat, tho' no Thirst) than it does in the Mouth or Throat, thorough which it passes quick, without making any Stay: And if that were allow'd for a good Reason, it might as well be pretended that the Organ of Thirst is seated in the Hands and Legs, fince 'tis Matter of Fact, that by Bathing them a confiderable time in Water, you may thereby alleviate Thirst, which is ever occasion'd by the Concretion of the Sulphureous Earthy and Saline Parts of the Spittle, which being chrystaliz'd into great Molecules, irritate the Nerves of the Mouth and Palate with

⁽a) Willis, cap. 3. de Febrib.

that particular Senfation of Heat and Dryness call'd Thirst. Now this Perception is incident to the Mouth and Palate, preferable to all other Parts, because besides the Dryness and Heat they partake of equally with the rest of the Body, the hot Air constantly expir'd from the Lungs not only dries these Parts more, but puts the Concreted Salts of the Spittle into a greater Motion, than the like Concreted Salts of other Humours do acquire elfewhere; whereby the Nerves of these Parts are more irritated, and the Perception of Heat and Dryness becomes more intense, and of a different Sensation in the Mouth and Palate, than elsewhere.

When a Feverish Disposition accompa. Restlessness nies the Cholick, the preternatural Fer-what, and mentation of the Blood will occasion Disposition of the Blood will occasion Disposition of innumerable little Fibres in many different Parts of the Body; whereby the Spirits will be forc'd up to the Brain with some Violence; whence Small Pains will ensue, answerable to the Cause, which does not act with extream Violence: and because these Pains are general all over the Body, the Patient not knowing what particular Part to refer them to, turns himself from Side to Side, thereby to find some Ease, which not obtaining, his Mind is troubled at it, and that Uncasi-

binder'd.

ness call'd Anxiety, or Restlessness, conti-

nues upon him.

As Sleep confifts in the Subsiding, Unaction, and Repose (a) of those Animal Spirits, which flowing from the greater Brain, are and whereby the Instruments of Sensations and voluntary Motions, whatfoever hinders that Calm and Quiet in them, will prevent Sleep, and keep the Patient waking. This may happen in the Cholick from many Causes. For the Feverish Disposition and Heat of the Blood, creating a Restless Uneafiness in all Parts of the Body, protrudes the Spirits with a constant and unusual Violence up into the Brain, whereby they are kept in a preternatural disturb'd Motion, opposite to that Quiet and Repose in them necessary to Sleep. But it happens here chiefly, from the sharp Sense of Pain felt in the Cholick, which as it continually forces the Spirits with extream Violence up to the Brain, not only augments their Motion within the Brain itself, but also protrudes them down the Nerves into all the Organs of the Senses, whereby those Organs are kept stretch'd, and capable of receiving the Impressions of outward Objects, which is the same thing, in other Words, as to remain Awake.

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⁽a) Willis, Anatom. Cerebr. cap. xi: & de Anim. Brutor. cap. 16.

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Sharp, Sower, and Bitter Taftes, are not somer or permanent and durable Symptoms of the Bitter Tafte Cholick; but what happen now and then, whence. from the belching up of Fumes of different Natures. They are Sharp, or Sow'r, when the Digestion is vitiated by too great a Quantity of Acids; and Bitter, when the Gall overflows into the Stomach: Or, as the Jaundice is an Accident frequent in this Distemper, it may then happen that too great a Quantity of Gall is mix'd with the Spittle, which will occasion a Bitter Taste in the Mouth.

Vomiting happens, when either the Gall vomiting. overflowing into the Stomach, or the Salts of Crudities and indigefted Aliments prick or corrode its Nervous Coat; whereby violent Undulations of the Spirits being made up to the Brain, and from thence by the Angle of Incidence into the Diaphragm and Muscles of the Lower-Belly; those Antagonist Muscles (whose Motions us'd to be alternate and successive) are contracted with Violence at one and the same time, and thereby press the Stomach, which lies between them, into a narrow Compass, and forcibly eject what was contain'd in it thro' its superior Orifice, which is dilated at that time by the Contraction of the Diaphragm; whilst the same Contraction, pressing down the Liver upon its lower Orifice, hinders any thing from passing

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⁽a) Willis, Anatom. Cerebr. cap, xi. & de Anim. Brutor. cap. 16.

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paffing downwards. The Proof of which Mechanism I have formerly given at large in a Treatise of Hysterick Fits, from pag. 46. to pag. 66. Second Edition.

Belching.

Belching proceeds from a Rarefaction of the Aliments into Winds; which being pres'd from Side to Side by the Contractions of the Muscles of the Abdomen and Diaphragm, and help'd by their own Elasticity, force their Passage where 'tis easiest; and when the Contraction of the Diaphragm opens and dilates the superior Orifice of the Stomach, and by preffing down the Liver shuts the Pylorus, then they rush out with a Noise and Violence thro' that upper Orifice into the Throat and Mouth.

Heat and the Urine.

The Heat and Sharpness of the Urine, sbarmess of when they happen in the Cholick, are occasion'd by the Inflammation of the Colon, which adhering to the Kidneys, communicates its Heat to them; whereby the Salts of the Urine being exalted, become capable of making violent Impressions upon the Parts, thro' which it pal-As we see it constantly happens in Gonnorrhaas, where the Inflammations of the Proftata, or of the Seminary Vesicles, imparting their Heat to the Urine in the Bladder, make it sharp and scalding.

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A Beating in the Belly, like to a strong A Beating Pulse, whether painful or not, is always in the Belly occasion'd by an Anevrisme, or extraordi- from Pulse. nary Dilatation of the Great or Caliack Arteries, whence the Pullation, or fuccessive Elevation of those Arteries is so strong, as to be sensibly perceiv'd: For, tho' I know that the Obstruction or Dilatation of smaller Arteries, may and do often occasion the like Beating in outward Parts; yet I am of Opinion, that none, but these Great Arteries, are capable, from any Caufes of making their Motion, be felt thro' fo many Parts, and the thick Muscles of the Abdomen.

The Pain frequently felt in the Loins, is Pains in the occasion'd by a violent Distention of the bence. Muscles of the Abdomen, whose Tendons, which are their most sensible Parts, being affix'd to the Vertebra of the Back-bone, in that place we call the Loins, or Small of the Back, hence it is the Pain is felt there. And the Difficulty the Patient finds, to stoop or bend forwards at that time, arises from the greater Distention of those Muscles by endeavouring it, whereby the Pain is encreas'd. This Pain is referr'd to neither Side in particular, but to the whole Loins, or Small of the Back in general, because the same Number of Tendons are affixt to the Vertebra on each Side, and being all equally stretch'd, are con-

consequently equally affected with the Pain. When Pains are felt in the Right or Left Hypocondria (or Cavities under the Short Ribs) they proceed from other Causes. Pains in the That in the Right Hypocondrium from an Hypocon- Inflammation, or the Irritation of any Bowel or Part of the Guts situated there, or from the Distention, Pressure, or Weight of the Liver. That in the Left Hypocondrium, from the like Inflammations or Irritations on that Side, or from the Distention, Presiure, or Weight of the Spleen. If I here make a Digression by way of Enquiry into the Use of this A Digressi- Bowel hitherto unknown, it can't be thought foreign to my present Subject; fince the Cholick, as I have already shewn, is often occasion'd by its Vices and Alte-

on the Uje of the Spleen.

dria.

tion of the

The Spleen is a fost spungy Viscus, of a dark red or blueish Colour, about six In-Structure of ches long, three broad, and one thick; fithe Spleen. tuated in the Left Side, between the Spurious or short Ribs, and the Stomach; adhering to the Stomach, the left Kidney, and the Diaphragm; externally cover'd with two Membranes or Skins, internally divided into a vast Number of Cells or Cavities, communicating like to a Honey-comb with one another, into which the Ramifications of the Splenetick Artery terminate, and pour forth the Blood.

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Blood. The Infides of these Cells are furnish'd with many little white Glands, to every one of which a capillary Artery is distributed; there is a multitude of strong Fibres, which cross the interiour Substance of the Spleen from Side to Side; some of which reach from its outward Membrane to the Cells ; others are subdivided from Fibre to Fibrey or from Fibre to Cell, and fome run only from Cell to Cell. These ferve as Beams, and Iron Cramps do in a House, to strengthen its Fabrick; and it is thereby made capable of Contraction, as its exteriour Membrane is of Dilatation. There is a manifest Anastomosis, or immediate Communication between the Veins and Arteries, in this Bowel. Its venous Ducts are beyond Comparison larger and more capacious than its Arterial ones. It is always fill'd with a greater Quantity of Blood, than any other Part of the Body, which is concreted into such a Jelly, that at first Sight it impoles upon the Eyes for a Fleshy Substance, tho' by a small Agia tation it may foon be reduc'd to Fluidity. It does not receive this Blood into capillary Veins, which by their Union form many Branches, and at last terminate into the Ramur Splenicus, but by a Structure and Mechanism peculiar to it felf, its Cells terminate in one thort and large Vein from whence all the Blood is convey'd by the

the Splenick Branch into the Pena Porta, and thence into the Liver. It is moreover remarkable that the Lympheducts range only within its exteriour Membranes, but do not penetrate into its Substance; that the Spleen has many more Nerves in proportion than any other Part of the Body, which are larger, the nearer they approach to, and for some Space within its Subthat its Veins and Arteries have more Coats than those belonging to other Parts; and that the Splenick Vein comes forth, close to the same Place where its Artery enter'd: so that the Blood is not carried in a progressive Motion from one End of this Bowel out at the other End of it; but all of it returns back again, to be carried off at almost the same Point it enter'd in.

Uses of the .
Spleen.

From this exact and particular Description of the Spleen, I shall endeavour to account for its Uses, which I take to be these: 1st, To give a Consistence to the Blood, thereby to preserve it from that Dissolution, Dissuion, and speedy Destruction, which a constant Division, and uninterrupted Fermentation soon induces; as we see it daily happens in continual and Hectick Fevers: 2dly, To dispose the Blood, by that Consistence of it, for the Separation of the Gall in the Liver: and perchance, 3dly, To serve as a Receptacle,

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cle, or retiring Place to part of the Blood in all violent Motions and Contractions, whereby it might otherways burst the Blood-vessels.

That the Motion of the Blood is les- Proofs that fen'd, and it acquires some Consistence in the Spleen the Spleen, is very probable, if not clear- gives a ly evident, from the following Matters fiftence to of Fact (and Matters of Fact are what I the Blood. love always to reason after, and to draw my Consequences from, where possible; being satisfied 'tis the readiest Way to Truth, and to what Certainty of Knowledge Humane Nature is capable of). First then by Diffections we always find the Blood in the Spleen more concreted than that of any other Part, and form'd into fuch a Jelly, it resembles one entire piece of Flesh. 2dly, This Blood is of a darker Colour than any other in the whole Body; which is known to be a certain Consequence of a Diminution of Motion in 3dly, The whole Structure of Liquids. the Spleen feems manifestly dispos'd and contriv'd to produce this Effect. For as Waters, when they flow out of narrow Channels, into Lakes or wider Beds, rui with less Rapidity; so the Blood convey'd into the Spleen, flowing from the little arborous Ramifications of the Splenick Artery, into large Cells and Cavities, must necessarily subfide within it duec, G 3

felf, and abate of its Motion. Add to this,

that there is a fix'd acid Recrement continually separated into this Elcod, from the many White White Glands plac'd within these Cells, Glands whose Nature it is to coagulate Sulphurous within the cells of the Liquors, and consequently the Blood. That Spleen; their something is separated thro' these Glands Use and the is plain, because Nature makes nothing in Nature of vain, and little capillary Arteries are vitheir Refibly distributed to every one of them; crement. consequently they are design'd, as all other Glands, for the Separation of some

Experiments pro-

as Glisson observes, the Blood itself in the ving the A. Spleen does not taste acid; yet, if when eidity of this the Blood is drain'd out of it, its glandu-Recrement. lous Vesicles are apply'd to the Tongue, an acid Taste will easily be perceiv'd: Likewise from its Effects, because if you mix new Milk with the Recrement squeezed out of these Glands, a Chagulum will thence arise; and if you inject a Laver of Soap into a Spleen almost cleans'd of its Blood, you shall sooner burst its Cells than force it to pass, tho' Water will at the same time pass freely thro' it: Reason of which I take to be, that the fix'd Acids of this Recrement, join'd to the Sulphurous and Saline Particles of the Soap,

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Recrement our of that Blood which is

carried to them. And that this Recre-

ment is of a fix'd acid Nature, will ap-

pear, from its Effects and Tafte. For tho',

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Soap, form a Vitriolick Salt, which contracts the Fibres, and closes up the Cells of the Spleen. As I have not yet had the Opportunity of making this last Experiment upon more than two Human Bodies, (tho' in both of them I observ'd what I here mention) therefore I won't affirm it for a Fact sufficiently grounded; tho' I believe it true, and what will constantly happen. But the acid Taste of this Recrement, and its coagulating of Milk, are undoubted, both from my own Experiments, and those of Malphigius (a), which without the other are sufficient to prove its Acidity.

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A further Proof of this Confistence, which the Spleen gives not only to the Blood in the Liver, but also to the whole Mass, is drawn from the Experiments I have often made of cutting the Spleen out of Dogs; after which they constantly became more lively, brisk and active, more ravenous, ran more after Bitches, and pils'd more frequently; all which clearly evince a greater, livelier, and brisker Fermentation in the Blood, consequently that it fermented less whilst the Spicen perform'd its natural Function. Whence I conclude, that one Use of the Spleen, is to abate and med reile daun G 4 mener ven a leffen

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evaluation at leaf in Part.

⁽a) Malpighius, Tract. de Liene.

lessen the intestine Motion or Fermentation of the Blood; the final End of which probably is, thereby to preserve its Vigour, and prolong the Life of the Animal. I formerly cut the Spleens from feveral Dogs, to try if I could thence make any Observations to corroborate this Conjecture; but the Remarks I made were too few, and too uncertain to be mentioned, tho' they ferv'd to confirm me more in the same Opinion. This I take Notice of, only to put others (who have the Curiofity and Leisure) upon the same Experiment; whereby if they constantly find, that those Dogs are more brisk and ravenous for the first Months, and afterwards pine and waste to Death much sooner than is natural, (as it happen'd to some of those I made the Experiment on) they may thence conclude, that, as 'tis evident the Want of the Spleen occasions a greater Fermentation in the Blood, fo that Fermentation always does, (as it now feems both reasonable and probable) advance the entire Diffolution of it, by the uninterrupted Division of its Salts; and thereby fhortens Life. Note that those who make this Experiment, ought, (which I omitted) to shut up these Dogs from Bitches, because their running so much after them, may otherway's occasion, at least in Part, that Decay, which I imagine will prove

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mented and uninterupted Fermentation of the Blood, which is what we endeavour to be fatisfy'd of by the Repetitions of

this Experiment.

The 2d Use I ascrib'd to the Spleen was That the to prepare and dispose the Blood for the spleen pre-Separation of the Gall in the Liver. And pares the as we see in Chymical Operations, that Blood for the Separa-Precipitation is the Method by which Art tion of the makes a Separation of Particles to form A-Gall. crimonious Salts; fo it is not unlikely that Nature makes a Precipitation from the That the Blood in the Spleen, thereby to form those Method of its doing it is Acrimonious Salts of the Gall, which are by Precipiafterwards separated in the Liver. To an tation. artificial Precipitation three things are requir'd; ift, that the Salts obtain a sufficient Dissolution, by a proper Menstruum; adly, that this Diffolution be contain'd in a large Vessel or Recipient. (Chymists always make use of such a one, as has its only Orifice in its Superiour Part.) 3dly. that a Diffolution of some fixt Acid Salts be pour'd upon it; from whence arises, a Fermentation in some Liquors, but in most a Coagulum, by which the Precipitation is made, and an acrimonious Salt separated. Now is there not a sufficient Dissolution made of the Salts of the Blood, by its natural Fermentation? Is not the Spleen a capacious Vessel or Recipient, almost of the

the very form Chymists would chuse. with both its Orifices implanted together in its Superiour part, and no Passage at the bottom or else-where; whereby it seems purposely contriv'd to detain the Contents, and allow time for the Salts to subside? is there not a fixt Acid separated from the inner Glands of its Cells? don't we obferve the Blood in it to be of a dark colour. and coagulated almost to a Jelly? and we certainly know that an Acrimonious Salt is foon after separated from this same Blood, and carry'd immediately into the Liver. Why then may not we with some reason conjecture, when so many things are Simular, that Natue effects a Precipitation here, much after the same manner as Art does elsewhere? But let us fix upon some one Artificial Precipitation, and see how near we can bring the Parallel of it, to what happens in the Spleen.

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Comparison al Precipitations, to a natural to bemade in the Spleen.

I take, for example, a quantity of Salt of Artifici- of Saturn sufficiently dissolv'd, which I put into a large Recipient or Vessel, then I pour Oyl of Tartar per deliquium drop by one suppos'd drop upon it, whereby a Coagulum is soon induced in the Liquor; and by giving it time to repose and subside, a White Powder is precipitated, or finks to the bottom. After which, by shaking it, I remix those precipitated Salts with the Liquor; then filtrate it through a brown Paper; whereby by the Liquor passes clear, and the Precipitated Salts remain upon the Filtre. Nature feems to act almost step by step after the same manner, when she conveys so much Blood, (in which there is undoubtedly a great quantity of Salts sufficiently dissolv'd) into the blind Recipient or Cavity of the Spleen; where the fixt Acid Recrement of its Glands, instilling drop by drop, like my Oil of Tartar, upon it, induces a Coagulum in this Blood, apparent by Dissections to the Eye. Structure of this Bowel, (wherein the Blood flows out of narrow Channels into much larger Cavities, and has thence no way of Reconveyance, but up thro' a small Orifice plac'd in its superiour Part) is contriv'd for that Delay and Repose of the Blood in this Vessel, which is necessary to its subsiding, and the Precipitation of its Salts; and the Contraction of the Transverse Fibres succeeding the Repletion and Diftention of the Spleen; its Pressure against the Ribs made by the Guts and Bowels of the Lower-Belly, in the Motions of Expiration (the Mechanism by which Nature helps this languid Blood to reascend into the Splenick Vein); together with the affusion of a more Active and Spirituous Blood upon it, in the Vena Porta, from its right Branch; must inevitably exagitate it, and thereby probably occasion

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occasion that remixture of its Precipitated Salts, which I effected in the Precipitated Dissolution of Saturn, by shaking it. Though 'tis to be observ'd, that the Agitation or Remixture of the Precipitated Salts is not necessary to all Artificial Precipitations, many of which are made without it, consequently may not be requisite to this natural one. From the Vena Porta this Blood flows into the Liver, whose Glands perform the Office of a Filtre, by separating the Precipitated Acrimonious Salts, which are afterwards fent off into the Gall-Bladder and Gall-Ducts, whilst the rest of the Blood passes on in a free courfe, through the Veins into other Parts, as the Watry Parts of the precipitated Dissolution of Saturn did through the Brown Paper.

There is another fort of Artificial Precipitation, wherein 'tis necessary to add to Twenty Parts of fix'd Acids, one Part of Volatile Salts: For Example, in making the White Precipitate of Mercury, we add half an Ounce of the Volatil Spirit of Salt Armoniack, to a Dissolution of Ten Ounces of Marine Salt pour'd upon the Mercury. And if you require the like Volatile mixture in this natural Precipitation, you may very rationally suppose it to be supply'd, either from that more active Spirituous Blood, which slowing from

from the Right Branch of the Vena Porta, is incorporated with this Blood before it enters into the Liver; or from the Spirits (as the Spleen has confiderably more Nerves in proportion than any other Part) supply'd to and mixt with it, in greater

quantity.

From what has been said. I am of Opinion, with submission to better Judgments, that the hitherto unknown use of the Spleen, is to interrupt the Fermentation of the Blood; and to effect a Precipitation of its Salts; by the former to prolong Life, by the latter to prepare the Acrimonious Particles of the Gall, for their Separation in the Liver. I was led into these Thoughts by various Experiments, and a ferious Attention to the whole Structure of the Spleen, every way difpos'd to these Ends; which induce me to believe that the long deviated Course of the Splenick Artery (whose Diameter is also much larger than that of the right branch of the Cæliack) was contriv'd to abate and lessen the Motion of the Blood in its conveyance to the Spleen; where its Effufion into a large Cavity dispos'd into many Cells, does by a Mechanical necessity lessen that Motion considerably more; and the subsequent mixture of the fix'd Acid Recrement from the Glands plac'd within these Cells soon Coagulates it: By

By which, and the requifite Delay or Repose contriv'd for it in the Gavity of the Spleen, the Precipitation of Acrimonious Salts from the Blood is effected: Which being carry'd thence, immediately into the Liver, are there Filtrated through its Glands, and form the Gall. Wholoever will be pleas'd to compare this Hypothesis with the many different ones of the undercited Authors (a) (who are all I have hitherto read on this Subject) may thence judge, which feems to him best grounded upon Reason and Experience. To me, no one of theirs is in the least Satisfactory nor is my own so clear and evident, as to make me flatter my felf, I have fully demonstrated the true Use of this Part; yet it appears both probable, and is what I hope to illustrate more and more by future Experiments.

A 3d Use A third Use of the Spleen, is, in the of the Splen Opinion of a very learned Man, to serve dubiously for a Receptacle, or Retiring Place to part of the Blood in all violent Motions; thereby to prevent the Rupture of the Blood.

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⁽a) Hippocrates. Plato. Aristoteles, Galen. Aretaus. Aphrodisaus. Archangelus, Varolius. Piso. Veslingius. Re-usnerus. Posthius. Uimus. Fessenus. Acmilius. Parisanus. Baubinus. Sennertus. Conringius. Spigelius. Reusnerus. Hosfmanus. Walaus. Helmontius. Dela Chambre. Grembsius. Higmorus. Deusingius, Glissonius, Malpighius.

Vessels. For as in violent Contractions the Blood is press'd from the outward. into the inward Parts, and the Spleen is a capacious Vessel, whose Cavity may be fill'd, and its Skins stretch'd and distended without any Prejudice to it self or hurt to any adjoining Parts, it probably receives more Blood at that time than usually, because after violent Exercises we always feel a Tensive Pain in the Lest-side, just where the Spleen is feated; which undoubtedly proceeds from the Distention of its Membranes. But I neither take this Use to be solely answerable to the Dignity of so principal a Part; nor do I believe that those, who shall think it worth their while to make the Calculation, will find that the small quantity of Blood what it can receive over and above it usually contains (being ever found full) can suffice to prevent the Rupture of any Blood-Vessels in distant Parts of the Body, whatever it may possibly do in those immediately adjoyning. And the painful Distention of this Bowel, after violent Exercises, may as probably proceed from the Rarefaction of the Blood, as from the Repletion of the Spleen, by a greater quantity of it.

A Chilness, or Sensation of Cold when From it happens in the Cholick, proceeds from whence the Irritations made by fix'd Acids, much in Sensation of the Cholick.

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the same manner as 'tis produc'd in cold Firs of Agues; but when it seems as if a Cold Iron were run through the Belly, that ariles from a great quantity of fix'd Acids mingled with the Chyle; which flowing through the Vena Lactea into the Pancreas Afellii, and thence by the Secondary Lade. als to the Ductus Chyliferus, irritates the Fibres of their inward Skins, with a Senfation not unlike to what we feel from the Application of cold Iron to any outward Part; and this Coldness being Progressive, as the Motion of the Chyle advances through the Mesentery, induces the Idea of a cold Substance moving through the Belly.

Cold Sweats

Cold Sweats are occasioned, by a deficiency of the Spirts in the Excretory Sphincters of the Military Glands; whereby that Serous Humour, which us'd to evaporate by Insensible Perspiration, finds a wider Passage, and flows out in large Drops upon the Surface of the Skin. Giddiness is also occasion'd by a like Deficiency of the Spirits in the Emporium of the Brain, as I have more fully explain'd it, in a Treatife of Vapours, from Pag. 76, to Pag. 83. 2d Edition. And as this Deficiency of the Spirits will arise from any Cause that Coagulates the Blood, or considerably lessens its Fermentation, it will be frequent in those Cholicks that are produc'd

Giddiness.

produc'd by Indigestions, abounding with fix'd Acids; which from the latter Caufe will occasion a Coldness and Paleness; from the former, Fainting Fits, or a Syncope. For as the Heat of the Body, and the Red Colour of the Face, proceeds from the lively Fermentation of the Blood, whatfoever confiderably lessens that in the whole Mass, will lessen it much more in the extream Parts which are farthest from the Heart; whereby being depriv'd of their usual Heat, they feel Cold. A Paleness will likewise ensue, because there Paleness. not being a Fermentation in the Blood sufficient to form, dispense, and spread in the Pores of the Cheeks, the usual quantity of Red Globules (by which the Rays of Light were Reflected with that Modification, which produc'd in the Eye the Perception of Redness) they lose their florid Colour, and become Pale and Wan. But when these Acids thicken and coagulate the Blood to that Degree, that its Circulation in the Lungs, and through the left Ventricule of the Heart is intercepted, then Fainting Fits, or a Syncope, Syncope or that is a Cellation of the Pulle and Breath-Fainting ing for a short time, will ensue.

of Heterogeneous Particles with the Spirits, or with the Copula Explosiva separated in the Porcs of the Muscular Fibres;

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whereby their Explosion becomes more violent and irregular: The latter of which Causes I take to be the most frequent. The Mechanism, by which the Muscles are contracted, and Convulsions caus'd, is deliver'd in the above-mention'd Book of Vapours, from Pag. 104, to Pag. 106. Second Edition.

Faundice.

As the Jaundice proceeds from the mixture of much Gall with the Blood and its Recrements; especially with that of the Corpus Mucosum, and the Humour, which nourishes the Conjunctive Tunick of the Eye; 'tis no wonder it should be frequent in the Cholick, where the Gall generally overflows in such quantity into the Guts, and is thence carry'd into the Blood, and all Parts of the Body.

How the Navel-String is drawn inwards or fwell'd outwards

When the Navel-String, and a small circumference round it, is drawn inwards; that is occasion'd either by Humours which stretch and distend its Cavity, whereby as it swells in breadth, it is shorten'd in length, and draws that Circumference of all the Muscles and Skins inward, to which its Insertion is made. Or else that the casual Pressure, and weight of some inward Part upon it, bends it with violence; and thereby draws that whole Circumference inwards, to which it is affix'd. What Swells it outwards can be nothing but Winds, or watry Humours filling

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filling its Cavity, and pres'd outwards by the Guts.

When great quantities of Green or From Tellow Matters are voided by Stools, with-whence Green or out any Ease or Relief from it; the Cause rellowstools of those frequent Stools is the continual in the Cho-Irritation of the Guts by Sharp Humours; lick. whereby their Contraction or Peristaltick Motion is confiderably quicken'd, and the Expulsion of the Excrements render'd more frequent. The Greenness or Yellowness of these Excrements, proceeds from a large mixture of the Gall with them, generally overflowing into the Guts in this Distemper, both which Colours are natural to it. They find no Ease by these Stools, because this Species of the Cholick is not occasion'd by any Vice in the Chyle or Excrements; but by sharp corrosive Humours impacted to, or imbib'd in the Coats of the Guts, where they continue obstinately fix'd.

When the Excrements are, as it some- How the times happens in the Cholick, Porous Excrements become Po-Light, and resembling Cow-Dung; I take rous and this to be occasion'd by a preternatural Light. quick and violent Fermentation of the Chyle in the Stomach and Guts, whereby its Salts, (which are what give Weight to mixt Bodies) immediately acquire the smallest Division, and enter with the Serous Particles into the Lacteal Veins,

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without making any confiderable difruption of the Sulphureous Filaments of the Food; which Sulphureous Filaments, together with the Earthy Particles, form a Porous Substance or Excrement, not unlike to the Caput Mortuum remaining after Chymical Operations.

Whence the the Pulse.

The last Symptom to be explain'd is Lowness of the Lowness of the Pulse, common, tho' not constant, in this Distemper. This is occasion'd by the preternatural Thickness of the Blood, induc'd by the fix'd Acids of the indigested Chyle. For the Blood cannot equire a greater Confistence, but that its Fermentation must be considerably lessen'd; its Fermentation cannot be confiderably lessen'd, but that fewer Animal Spirits will be form'd, and a less quantity of the Copula Explosiva separated in the Fibres of the Heart; the Copula Explosiva and the Spirits being supply'd but in a small quantity to the Heart, can make but a weak Contraction or Explosion in its Muscles; the Contraction being weak, can squeeze forth but a small quantity of Blood receiv'd into the Arteries; the quantity of Blood receiv'd into the Arteries being but small, and fermenting but little, can occasion but a very inconsiderable Distention, or Elevation in them; whence their Vibration or Beating is scarce perceptible, tibl the E

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But how the same Cause should occasion How hoe violent Hot Pains in the Lower-Belly, and Pains in the at the same time a Lowness in the Pulse, and in the Ex-Chilness or cold Sensation in the Extremi-tremities, ties, is what requires some Thought to ac-andlowness count for. Which Symptoms I take to of Pulse, be produc'd thus. The first Action of happen tothe indigested Chyle abounding with fix'd the Cho. Acids, is an Irritation of the Guts, by lick. which Irritation, both violent Pains, and the Overflowing of the Gall into them, are occasion'd. After which part of the fix'd Acids penetrate into the Glands of the Guts, which they obstruct, and Coagulate its Recrement; this coagulated Recrement rifes after some time into a violent Fermentation, from the Heat of the Blood in the adjacent Parts, and thereby causes Inflammations; which are encreas'd by the great quantity of Gall overflowing into the Guts; from hence the Heat in the Belly. But as the greatest part of this indigested Acid Chyle, continuing its course, is carry'd through the Lacteal Vessels, into the Blood, that thickens the whole Mass, and by thickning of it occasions a Lowness of the Pulse, and a Chilness or Cold Sensation in the Extream Parts; after the manner just above explain'd. Having H 3

102 Explanation of the Symptoms

Having thus mechanically accounted for all the Symptoms and Accidents of the Cholick, I shall in the next Chapter proceed to its Diagnosticks; and deliver those Signs and Tokens, by which both the Physician and the Patient may discern, from which of so many different Causes any Fit of the Cholick proceeds.

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CHAP. III.

The Diagnosticks of the Cholick.

A Cholick proceeding from Indigestions signs by and Crudities, (taking the words in Cholick is a general Sense) is known by the Grumb-known toprosling of the Guts, frequent Belching, and ceed from Breaking of Wind backwards, by a Loose-Crudities ness; or that the Patient has taken Cold, or eat too much, or Aliments of hard

Digestion.

When the Indigestions are of a Sower and Acid Nature; that is known by the Conference of sower stitution of the Patient, by the Coldness Humours. of the extream Parts, the Concentration and Lowness of the Pulse; by a sleepy Disposition, and Heaviness in all Parts of the Body; by the Sharp and Sower Taste of what he Vomits; or from his having eat great quantities of Green Fruits, drunk green Wines, Cyder, or Sower Liquors.

The Cholick is known to proceed from FromWinds. Winds, when the Belly is stretch'd and Swell'd; the Guts grumble; the Patient breaks much Wind upwards and downwards, and finds Ease thereby; also when

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the Pain moves in an instant from one Place to another. These Winds are distinguish'd to proceed from a stow Fermentation of the Crudities, when the abovementioned Signs of Sharpness and Sowerness in them are present, and the Swelling of the Belly is without the Sense of Heat. And from a quick and violent Fermentation in them, when the Swelling of the Belly is sudden, and accompanied with a preternatural Heat.

From the The Cholick is known to be occasion'd Retention and Hard by the Retention and Hardness of the Exness of the crements; from the Constitution of the Pa-Excrements tient, who is generally hard bound, and

goes naturally but once in three or four days to Stool; from his not having been at Stool of a long while; from the hardness of the Colon which may be felt outwardly; and that Astringent Remedies, violent Exercises, long Voyages at Sea, much Riding, or a Sedentary Life have

preceded.

Sharp and Sower Humours discharg'd from Whereby known to be the Blood, upon the Stomach, Guts, or other Parts within the Lower-Belly, occasion'd by sharp or may be guess'd at to be the Causes of fower Huthe Cholick; From the Constitution of murs the Patient, from the manner of the discharg'd painful Irritation; and the above-given from the Blood. Signs of Sharpness in the Humours; when there are no grounds to attribute the Cholick

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Cholick to Indigestions, or to the Overflowing of the Gall; but chiefly when frequent Purges and Glyfters give no Eafe, but the Pain continues violent and obstinate.

Corrofive Humours discharg'd in the like By Corromanner from the Blood, are conjectur'dsive Huto be the Cause, from the Constitution of mours difthe Patient; from the Hot Corroding the Blood. Sense of Pain; its Obstinacy to be remov'd; and the absence of other Causes: that the Excrements are not ting'd with Gall; that Purges and Clysters don't alleviate it; that the Urine is scalding, and that Hot things augment the Pain, as Galen (a) observed; that the Stools are hot and painful; and that there is a Thirst, Restlessness, and Feverish Disposition.

The Humours of the Gout, Scurvy, Rbu-By the Humours of the matism, Venerial Distempers, &c. may be Gout Sourjudg'd to be translated from other Parts up. vy. Rbuon the Guts to occasion the Cholick; matism,&c. when upon the disappearance of a Swelling, or the Cessation of a Pain in other Parts, the Cholick immediately succeeds to a Person troubled with any of these Distempers; according to the Remark of Hippocrates, Epid. 3. Ille in Colon dolebat, Superveniente Artbritide melius babebat.

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⁽a) Galen lib. 1. de loc. affect.

By the Overflowing of the Gall.

The Overflowing of the Gall into the Guts, may be suppos'd to happen, and be reckon'd as a conjoint Cause of the Cholick, whenever violent Irritations are felt in the Guts themselves; whereby a greater quantity of Gall will be always separated into them, as has been above explain'd. It may be gues'd to be the fole Cause of it, from the Bilious Constitution of the Patient, the Heat of the Bowels not fix'd to any one Part; from the Fever, Thirst, Restlessness, Bitter Taste, Yellowness of the Urine, the Jaundice, Vomiting of Bilious Humours; and from what has preceded, as his having drunk great quantities of hot Liquors, eaten much spic'd or hot Meats, being put into Pasfion, or being subject to, if not actually affected with, the Jaundice.

That it is occasion'd by the change of By Atrabile the Gall into what Physicians call Atrabile, may be gather'd, (supposing the absence of other Causes) from the deep Melancholy Constitution of the Patient, from foregoing Accidents, as Passion, excessive Grief or Melancholy; but chiefly from the burning Heat in the Belly, whilst the extream Parts are Cold; by the hot dry Taste of what he Vomits; by the Lowness and Concentration of the Pulse, and that a Cadaverous Aspect or Facies Hippocratica comes on a sudden.

That

That it proceeds from the Gall's being By the Imimbib'd into the Coats of the Guts or Sto-bibing of the Gall in mach, can be gather'd only from the long to fleshy continuance and obstinacy of the Distem-Parts. per, which finds no relief from Purges nor Clysters; has no appearance of any other Cause, but the Heat and Symptoms of the Gall's overflowing; and that the Patient makes frequent and extraordinary efforts to Vomit, or to go to Stool, but voids little or nothing.

Ruptures are apparent to the Eye; and By Rupthe Compression of Inward Parts of the Bel-tures or ly by Tumours, Schirrus's, or Stones, ons. may be guess'd at by the particular Sensation of the Pain; and the presence of any

one of these Causes.

The Rupture or Relaxation of the Liga-Bythe Rupments of the Womb, are known by its tures, or Descent. Those of the Liver or Spleen the Relax-feldom happen, and are scarce possible to be Ligaments. discover'd till after Death.

When the Cholick is occasion'd by an By Inflam-Inflammation, it may be discover'd by these mations. Observations; that a hot Pain, not distinctly settled at first, is afterwards pertinactionally six'd to a Point, with a much more hot, sharp, and burning Sensation, with a greater Constipation, no breaking of Wind, a Suppression or but little Evacuation of Urine, Thirst, Restlessness, and a Fever; but above all with a Dolorisick Tension.

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Tension either in the whole Belly or part of it, and such an exquisite Pain, that the least pression or weight is intolerable.

Tis known to proceed from the Inflammation of the Stomach.

If the Inflammation be in the Stomach, besides the hot burning Pain in Scorbiculo Cordis, Thirst, and Restlessaes, the Heart-burn, continual or frequent Vomitings or the Hickup will happen; Liquors drunk warm will feel cool in the Stomach, and a Fever ensue, in which the Extremities will be cold.

From the Inflammation of the Liver.

The Inflammation of the Liver, as well as those of the Spleen and Stomach, does, from a simular Sense of Pain, often impose upon the Patient and Physician for the Cholick; under which denomination it generally, and not improperly passes, till the Symptoms rising to a height, manifeftly denote the true Cause. In which interval, tho' it be difficult to diffinguish it from a Cholick proceeding from other Causes, yet it may be gues'd at by these Signs: 1ft, That a Hot Pain accompany'd with a Feverish Disposition is seated on the right fide only, where, by running your Finger under the Short Ribs, so as to press the Liver, a more exquisite Sense of it arises. 2dly, That the Patient lies with more ease on his Back, than on either fide. 3dly, That he feels some difficulty in Breathing, which he takes to be the beginning of a Pleuresie on the right fide.

side. 4thly, That most of the Inslammations of the Liver will end in the Jaundice. The Cholical Pains preceding the Spleen. Inslammation of the Spleen, are conjectured at, by the same Signs affecting that Part of the Lest side, where the Spleen is seated. But as the Spleen is not endowed with an exquisite Sense of feeling, the Pain is commonly dull and obtuse.

Tho' we know that Imposibumes often succeed Inflammations, yet they are no otherways to be distinguish'd in the inward Parts of the Lower-Belly, than by the Cessation of that Heat and Pain, which an Inflammation of long continuance had occasion'd; except in the Stomach, wherein they may be discover'd by the Vomiting up of Corruption; and sometimes in the Guts, from the voiding of it by Stool. Ex diuturno partium qua ad Ventrem attinent dolore, Supparatio. Hippocrat. Sect. 7. Aphor. 22.

Inward Ulcers of the Lower-belly are From Ulvery difficult to be distinguish'd from cers: other Causes, and can only be guess'd at From Canby the sharp gnawing Pain; but Inward cers.

Cancers are more easily known by a shoot-

ing Pain in the Part.

The Collection of watry Humours; great From Swellings or Tumours in the Peritonaum, ling and Caul, Mesentery or Womb, are known by the permanent Distention of the whole Belly:

Belly: but those of other inward Parts are scarce possible to be gues'd at, except the Tumours and Schirrus's of the Liver and Spleen, which may be felt Outwardly.

From Cal- Callefities, Gravel, or Stones, in the losities, Gra- Pancreas, Stomach, Liver, or Guts, tho' velor Stones often found in those Parts by Diffections,

are scarce possible to be distinguish'd in Living Bodies; nor doth it much import, fince 'tis beyond the Power of Art to remove them. But Stones in the

From Stones Gall-bladder, if large or sharp-pointed, are in the Gall-known by a fixt Pain on the right Side,

just between the Navel and the Short Ribs; that if any Stones are voided by Stool, they are either Yellow or Green, or at least give a Tincture of those Colours to the Water they are wash'd in; and that when this Pain has hung long upon the Patient,

the Jaundice enfues.

ous Pituitous Hu-

bladder.

From Vitre- Vitreous, Picuitous Humours adhering to the Guts, may be then guess'd to be the Cause of the Cholick; when the Pain has not the Sensation of Heat, when the Patient is of a Scrophulous Disposition, and is much bound; when he has Stools by Art or Nature, then voids Vitreous, Pituitous, Glewy Matters.

From the

Obstructions It is a difficult matter to find out, and and Swel-know for certain when the Cholick is pro-Glands of duc'd by Obstructions and Tumours in the the Guts. Glands of the Guts; but if a fixt Pain of

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long Continuance, and of no very hot Nature, is deeply seated in the inward Parts of the Belly, and the Patient be of a Scrophulous Disposition, or afflicted with the King's Evil, and that Purges and Clysters bring no Relief; these with the Absence of other Causes, will give Grounds to believe it arises from this.

When the Cholick removes suddenly, signs by or frequently, from one Place to another, which the 'tis a certain Sign, that the Cause, whe known to rether it be Winds, morbid Humours, or side in the the Overslowing of the Gall, resides in Gus.

the Guts themselves.

When a Pain of the Cholick is seated In the Pein the Peritoneum, or in the Caul, 'tis di-ritonaum
stinguish'd to lie in them, because the or Caul.

Pain is felt outward in the Fore-part of
the Belly, and is not very violent: Dolores qui ad ventrem fiunt, sublimes quidem
leviores, non sublimes verò vehementiores.

Hippoc. Sect. 6. Aphor. 7.

When the Cholick is in the Stomach, In the Stoall the Violence of the Pain lies above mach. the Navel, none below it; and it sometimes reaches up to the Back-bone, and between the Shoulders: Belching and Vomiting are frequent, and the Patients are eas'd by them; the Heart-burn and Hickup often happen; and they find more immediate and present Relief by proper Remedies taken by the Mouth, than when the the Cause lies in the Guts, or in any other Parts of the Lower-belly.

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In the Womb.

Cholical Pains are diffinguished to proceed from, and refide in the Wamb, when the Pain is extended to both the Hipps, and does not alcend higher; when Hard Labours, or great Floodings have preceded; when the Monthly Courses are obstructed, or that the Time of their coming down approaches, or that they flow immoderately.

Cholick is occasioned by Paffions : or Colds.

A Fit of the Cholick is known to prowhich the ceed from Taking Cold, or from Passions of the Mind, when either of these Accidents known to be are present, or immediately preceded the Paroxism, in People of a weak and tender Constitution; of a Crude Lax Habit of Body; or who have had Hard Labours, great Floodings, and Hamorrhagies; it generally seizes their Stomachs, and is sometimes felt a little lower; they vomit green or yellow matters, and there is a great Dejection of the Mind. This Cholick goes off in a Day or two, but returns upon any sudden Cold, Surprize, Sorrow or Passion; Walking or Exercise will occasion it, and a Jaundice sometimes enfues, which goes off of it felf in a few By the In- Days.

fertion of the Gallduct into the Stomach.

The preternatural Insertion of the Gallduct into the Stomach, may be guess'd at, by the frequent, habitual, and almost continual tinual Irritations of the Stomach, and the Vomiting of Gall; and because they find Relief by Eating and Drinking, and are then subject to the greatest Irritations, Heart-burnings, and Vomiting, when the Stomach is empty.

The Excrescence, and Inversion of the By the In-Cartilago Ensistermis upon the Stomach, is version of known by a fix'd Pain in the Pit of the the Cartila-Stomach, just where the Ribs part; by mis. the Encrease of the Pain, when that Part is prest by the Finger, and by frequent

Vomiting.

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Worms, Lice, and other Infects, may be By Worms guels'd at to be the Caules of the Cho- or other Inlick, from the Age and Constitution of feds. the Patient. Children are generally troubled with them 'till fifteen or thereabouts; grown up People of a moist Constitution are more subject to breed them than others; and old People are more liable to them than those of a middle Age. Paleness of the Face, greyish Colour of the Excrements, the Whiteness of the Urine, Loss of Appetite, Vomiting, frequent and almost continual small pricking Pains in the Guts or Stomach, more perceptible after long Fasting, denote them. But the only certain Sign is, when they vomit Worms, or, what is more frequent, void them by Scools.

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That 'tis

It is easily known when a Pestilential Pestilential Disposition in the Air occasions the Cholick, by its being Epidemical, and its having the particular Symptoms observ'd to

accompany it.

By what from the Nephretick Cho-Lick.

The Cholicks here treated of, are disigns known stinguish'd from the Nephretick Cholick (occasion'd by the Inflammation of the Kidneys, or by Stones or Gravel in them) by these Signs. In the Nephretick the Pain lies always fix'd and deep, on the right or left Side of the Small of the Back, or in both; it does not mount higher, nor advance towards the Middle of the Belly, but descends down in an oblique Line towards the Bladder, and is always extended to the Back: other Cholicks are felt more forwards, more in the middle of the Belly, and higher up than the Kidneys. In the Nephretick the Urine is generally clear at the first like Rock-Water, afterwards deeper Colour'd, hath a Sediment, and is loaded with Gravel or small Stones. In these Cholicks it is from the very beginning higher colour'd, thicker, and more muddy than Natural. The Nephretick commonly occasions a dull heavy other Cholicks a more intense, pricking, or hot Pain: And tho' sharppointed Stones in the Kidneys often occafion acute cutting Pains, they are eafily distinguish'd by the fixt Situation of them

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in the Parts answerable to the Kidneys: most other Cholicks remove frequently from Place to Place; the Nephretick is ever fixt, and often occasions a Numbness in the Thighs, and sometimes draws up the Testicles. In most other Cholicks Vomiting is more violent and frequent, the Body more bound, and the Patients find more Relief by Stools and Vomiting, than they do in the Nephretick; in which the Swelling of the Belly, Grumbling of the Guts, and breaking of Wind seldom happen. The Taste of Urine in the Mouth is an undoubted Sign of the Nephretick.

2 CHAP.

of loss ... Oxicis proceeding from invadir, or complete the which the second rate of the belly second rate belly not obtained by bound, are foldow dangers.

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CHAP. IV.

The Prognosticks of the Cholick.

C Holicks that are Accidental, and whose Causes are evident, are gene-

The Dan-rally not dangerous.

gers of Ha. Habitual Cholicks are very difficult to bitual Cho- be so entirely cur'd, that they shall not lieks. return again: For after their long Conti-

return again: For after their long Continuance, and repeated Paroxisms, which last for Days, Weeks or Months, the Humours often spread themselves into the Loins and other Muscles, or fall upon the Nerves; whereby they frequently end in Palsies or Epilepsies, often in Iliack Passions, Rheumatilms, Marasmes, or Extenuations of the whole Body; and sometimes in Gouts, or Droppies. Ille in Colon dolebat, superveniente Artbritide, melius babebat Hippoc. 4. in o. Epid. 3. Quibus Intestina contorquentur circa Umbilicum, labores, & Lumborum dolor adest, qui neque medicamento purgante, neque alia ratione Solvitur, in secum Hydropem confirmatur. Hippoc. Sest. 4. Aphor. 11.

of Wind Cholicks proceeding from Winds, or that move from Place to Place; in which the Excrements are fost, and the Belly not obstinately bound, are seldom dange.

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Wen derly

When the Pain of the Cholick is fixt, Offixt Cho. the Constipation great, or the Belly licks. feems as if it were hard ty'd with a Gir-

dle, the Danger is greater.

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When the Pain of the Cholick has no of Cholical Intermission, is accompany'd with a great Pains with-Heat, violent Constipation, Vomiting, out Inter-Hickup, Raving, Syncope, Cold-sweats, and Coldness in the Extream Parts, 'tis generally mortal. Ex vebementi partium, que ad ventrem attinent, dolore Extremorum refrigeratio, mala. Hippoc. Sest. 7. Appar. 26.

Cholicks, which proceed from an Ex- of Cholicks coriation, Ulcer, Gangrene, violent Inflam-from Vicers, mation, or Impostume in the Guts, or other Inflamma-Parts, are for the most part mortal; and wons, &c. when to an Inflammation there is added a Suppression of Urine, the Danger becomes more eminent, and 'twill probably

end in an Iliack Passion.

Cholicks from inward Cancers are always of Cholicks mortal; their Cure is not to be attempt-from Caned, for thereby Death will be haften'd. cers. Quibus Cancri occulti oriuntur, eos non curare prestat; curati namque cito pereunt, non curati vero diutius per durant. Hippocrat. Sect. vi. Apbor. 28.

Violent Cholicks that happen to Wo-What Danmen with Child, especially if they are el-ger when derly, and to those who are much weak- in Child bearing and TIS COLLEGE A LOS OF THE VIEW

en'd weak wo-

men.

Worms,

en'd by former Sicknesses or great Loss of Blood, are extreamly dangerous.

Cholicks that are epidemically contagi-When Epidemical ous, and proceed from a pestilential Disposition in the Air, are often mortal.

Cholicks proceeding from the Hardness When from the Hardness and Retention of the Excrements, tho' not and Retendangerous at the Beginning, become fo Excrements by their long Continuance; whereby they occasion Inflammations in the Guts.

A Cholick caus'd by Ruptures, general-When from ly ends in an Inflammation or Iliack Paf-Ruptures fion; from both of which there is much

Danger.

When from Cholicks occasion'd by Obstructions and Obstructions Tumours in the Glands of the Guts, are of long Continuance, and very difficult to mours of the Glandscure; they often turn to Inflammations, of the Guts, which end in Impostumes and Suppurati-

Moreover this Schrophulous Disposition frequently creates Obstructions in the Glands of the Mesentery and the whereby these Cholicks some-Lungs; times end in Ptisicks, or Dropsies.

Cholicks proceeding from Pituitous vi-When from pituitous, treous Matters adhering to the Guts, are Witreous very obstinate; and they are dangerous, Matters, or not so, according to the Violence of

the Symptoms, Cholicks occasion'd by Worms are not When from dangerous when the Cause is known; because easily cur'd by proper Remedies ap-

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ply'd in time; yet they are very dangerous, and often mortal, in this Respect, that this Cause is seldom thought of, in any but Children, and often over-look'd in them, 'till 'tis too late.

Cholicks arising from Indigestions, of When from a sower Acid Nature, are not dangerous Acids.

if taken in time.

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Cholicks occasion'd by sharp and sower when from Humours discharg'd from the Blood upon sharp or the Guts, are verytroublesome and obstinate, sower Hubut seldom mortal; as Diseases proceeding charg'd from Acids, and the Thickness of the from the Blood, are least sudden and dangerous in Blood.

all Cases.

Cholicks occasion'd by Corrosive Hu-When from mours discharg'd from the Blood upon the corrosive Guts, are very dangerous; because they generally occasion Excoriations, and Ulcers.

Cholicks proceeding from the Tranf-When from lation of the Humours of the Gout, Scur-the Humours of the Gout, Scur-mours of the Mumours of the Gout, upon the Guts or Stomach, are dangerous, scurvy &c. or not so, according to the Violence or Remissness of their Symptoms, and their long or short Continuance.

Cholicks from the Overflowing of the When from Gaul, are also dangerous, or not so, ac-the Overflowing of cording to the Violence of their Symp-the Gall. toms, and from the danger of the Jaun-

dice, which frequently succeeds.

I 4 Cholicks

When from Cholicks from the Atrabile, or corro-

Atrabile. five Gall, are very dangerous.

when from Cholicks from the Gall's being imbib'd the imbiinto the Coats of the Guts, Stomach, bing of the &c. are very obstinate and dangerous, as the fleshy generally occasioning Fevers and Inflamparts.

mations.

When from Passions or Colds.

Cholicks occasion'd by Passions or Colds, are not dangerous; their Paroxisms are not of long Continuance; but their Returns

are frequent.

When from Stones.

cholicks from Stones in any of the Bowels, do not portend immediate Danger; but are very obstinate, scarce possible to be remov'd, and often kill the Patient by a lingering Death.

cholicks arising from the Growing together of Inward Parts of the Guts are incurable, and occasion speedy Death. This Case very seldom happens, tho some Instances of it are attested by credible Authors.

When it When the Cholick affects the whole affects different Extent of the Colon, tis more dangerous ferent Parts of the than when it affects only some part of it. Colon. Tis least dangerous when it affects only the Extremity of the Colon from the Navel downwards; because Clysters easily reach thither: More dangerous when seated in the middle of the Colon; which is that part of it, that runs across under the Stomach, and thence passing by the

Spleen, marches over the left Kidney; and most

most dangerous when residing in the beginning of the Colon; which lies on the right Side, and by a winding Course extends it self to the Liver; because Clysters can scarce reach so high, when this Gut is fill'd with hard Excrements.

In fine, all Cholicks are more or less dangerous, according to the Remissels and Intermission, or the long Continuance and Violence, of the Symptoms, which are sometimes insupportable, and force poor Mortals to put an End to their Pains by violent Deaths; as Galen (a) and other Authors testific.

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feveral Coules of the Captick, and to re-

mand by what Symptoms and Accidence each may, be known add chilinguild'd.

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⁽a) Galev. lib. 2. de composit, medic. cap. 1.3

Tigge Side, and by a A H Dougle Car.

gianing of the Colony which lies on the

The Cure of the Cholick.

la fine, all Cholicks are morenor less

Ippocrates and Galen both affure us. I that it is an easie matter for him to Cure any Distemper, who thoroughly knows the Nature and Causes of it (a); with much more Reason may the same be affirm'd of modern Physicians, because they have the advantage of innumerable experienc'd Remedies deliver'd fince by various Authors. Wherefore my chief Study and Care has been to establish the feveral Causes of the Cholick, and to remark by what Symptoms and Accidents each may be known and diftinguish'd. What I deliver in this Chapter, shall be more the appropriating of approv'd Remedies to the proper Causes of this Distemper, than the writing of new Prescriptions, which I never affected.

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⁽²⁾ Medicus sufficiens ad morbum cognoscendum, sufficiens est ad curandum. Hip. lib. de Arte. Promptissima sit curatio ab eo qui probé agritudinem agnoverit. Galen. 12. met. cap ult.

In the Cure of the Cholick three things are chiefly to be aimed at. If, To ease the present Pain. 2dly, To Strengthen the Bowels. adly. To remove the Caufe. The Pain may be eas'd by Bleeding, which empties the Vessels, and lessens or prevents Inflamin mations; by Anodins and Narcoticks and by Clysters appropriated to disfolve the Hard Excrements, and to discharge and carry off the vitious Humours. The Bowels may be strengthen'd by spirituous and ballamick Ingredients mixt with Clysters and other Remedies, such as Diascordium, Turpentine, and Cordial Mixtures. And the Causes may be remov'd by feveral Methods which shall be hereafter deliver'd under each particular Head of the Cure.

Bleeding, tho' not so requisite in habitual Fits of this Distemper, is proper in the beginning of most Cholicks, to prevent Inslammations which are very frequent, and always to be fear'd in this Discase: but it is more praticularly necessary in these three Cases. 1st, When there is a violent Heat or Inslammation in the Lower belly. 2dly, When a Feaver accompanies the Cholick. 3dy, When there is a great flux of bumours upon any Part. And Bleeding is to be repeated, according to the violence of the Symptoms, where ever the strength of the Patient will al-

low it. Of both which a Physician can

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be a competent Judge. and of wheirle are

After once Bleeding, a Clyster is to be order'd, in some one of these or the like forms, and it may be of Service to make the Patient, after he has taken it, lie upon that side which is most Painful.

Be Ol. Oliv. vel Amgydalar. dulc. cale-

sod by Cleffers approximated to dillalye

Be Decott. capit. Ovin. Ped. Vitulin. vel. Insestinon. Verves. 3x. Ol. Oliv. Ziij. miss. fiat Enema.

Be Urin. San. Ibj. vel Zxij. Therebinth. Venet. in Vitel. Ovor. No. 2. Solut. Zj. Sacchar. culinar. Zj. misc. siat Enem.

Be Decott. Capit. Ovin. Urin. san. an. 3v. Ol. Rut. vin. cott. an. 3iij. Albumin. ovor. folut. No. 2. sal. commun. 3j. misc. sat Endm:

Be Ol. Oliv. vel Lin. Vin. Malvatic. vel Canarin. an. 3 v. vel vj. mifc. fiat Enem. colebrand. in causis frigidioribus sed non in Instammatoriis.

When the Intention is, not only to evacuate by Stools, and to relax the violent Tension of the Guts, but also to corroborate roborate and strengthen their Fibres at the same time, these following or the like Clysters will answer it.

B. Absynth. roman. centaur. minor. an. m. j. flor. Chamam. baccar. Laur. an. 311j. toq. in juscul Capit. Ovin. vel in Vin. mal-vatic. vel Canarin. q. s. adde Ol. Juniper. Ol. Therebihth. an. 31s. misc. flat Enem.

B. Vin. Makvaric, vel Canarin calid. 168.
Vitel. ovor. diffolut. No. 2. Diafcord. 3ss.
mifc. fiat Enem.

This Clyfter is prescrib'd but in half the usual quantity, because the Intention is to have it stay long within the Body, thereby to corroborate the Fibres of the Gues, and to afford them that Relief which Cordials give the Stomach.

If what Clysters are given do not answer, but stronger are requisite, then add to some one of the foremention'd, Decoct fol. Sem. Is. vel I or Infus. Croc. metallor. Itis vel Tartar. Emetic. gr. viij. Some of which must, generally speaking, be given, when the Patient has retain'd two or three common Clysters: but Bleeding has the greatest Success in this Case; for daily Experience convinces us, that the same Clyster will operate well immediately after Bleeding,

Bleeding, when two or three given before were ineffectual old should some small and

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Carminative Clysters are most commonly improper, for they create those Winds they are thought to expel; they difturb the Humours; firetch the Fibres of the Guts, and augment the Pain, as Galen well the marine of

observes (b).

When the Heat is great, the Pain extream violent, and accompanied with frequent Vomiting; Narcoticks are always to be mix'd with the Clysters; for 'tis matter of Fact, that when even gr. iv. vel v. Laudan. taken by the Mouth could not ftop the Vomiting, the same quantity given in a Clyster has frequently done it effectually almost in an Instant. And tho' Sydenbam feems fearful of giving Narcoticks till the Humours have been prepar'd, and part of them carry'd off by one or more Purges, that Rule does not hold in this Distemper, because it is a true Observation that Purges feldom or never operate in violent Pains; and an experienc'd matter of Fact, that when the violence of the Pain is allay'd by Narcoticks, the same Purge shall work kindly afterwards which before had no effect. Wherefore after sono Clysters : bur Electing has the grea-

⁽b) Carminativa majores dolores excitant. Galen. 14. Meth cap Tenonical library of the Hoff Bleeding

once Bleeding, if necessary, and one Clyster, it will be generally proper to prescribe a Dose of Landanum at Night, in one of these or the like forms.

B. Aq. Latt. Alexiter. Aq. Cerafor nigror. an. 3j. Aq. Cinnamon. fort. 3s. Syrup. de macon. 3vj. vel 3j. vel Laudan. Opiat. Londinenf. dissolut. gr. j. vel iss. misc. fiat. Haust. bora decubit. Sumend.

Be Laudan, Opiat. Londinens. gr. j. vel ils. fiat, Pillula.

R Laudan. Liquid. gut. xv, xx, vel xxiv. Jumend. borà somni in vehiculo commodo.

Authors, that Narcoticks fix the Humours, (which I am far from being convinc'd of) yet I am of Opinion that when given in excess they do sometimes translate, and throw them upon the Nerves, and thereby occasion Palses to ensue on Cholicks; for which reason I think their use ought always to cease, as soon the Pain is well allay'd. But I would not have any one inferr from what I say, that the danger of an ensuing Palse is so great and certain, that the use of Narcoticks ought on that account to be omitted in the Cholick; for not only the violence of the Heat

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or Pain, to both of which they afford the most certain and immediate Relief, but the Experience of Purges and Clysters working kindly after their use, when they did not before, do recommend them; and the Observations of the Antients shew their necessity in this Diftemper (c). Next Morning repeat the Clyster, and give another that Evening, and a dole of Landamen at Bed-time after its Operation. But it is very carefully to be observ'd, that when the Patient is extream weak, and in so finking a Condition that you apprehend him to be hear Death, Narco. ticks in that case are not only beneficial, but absolutely never to be given, for by stupifying the Spirits already languid and finking, they haften or bring on immediate Death.

The second or third Day it will be generally convenient to Purge. The Medicine must be gentle, for violent Purges occasion a greater flux of Humours upon the Guts, (the Part most frequently affected in this Distemper) as Actions, Paulus, Fonseca, Fuchsius, and many others rightly observe.

from what I fays that the dan-

⁽d) Litet ego omnium ab usu graviter sopientium abborream, en tumen in Colico vebementissimo, exhibes. O cogente dolore stupefacientibus necessario Utor, deloris enim sedant, licet dispositiones non tollant. Gal. 2 ad Glauce sep. 8.

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Galen uses only Lenitives in the beginning of this Distemper, and forbids strong Medecins (d). And for this End Rhafis (who has been followed in that Practice by many Moderns) mixes Narcoticks with Purgatives; which I think not so proper, as to give Narcoticks over Night, and a Purge the next Morning; my reason is, because Nacroticks mixt with Purges often hinder their Operation, and render them ineffectual. Of gentle Purges I take those to be most proper in the Cholick, that are given in a large quantity of Liquid, which both relaxes the Fibres of the Stomach and Guts, and by dissolving the Salts, lessens their Irritation. They may be order'd in any of these, or the like forms.

B. Tamarind. ping. Ziss. coq. in s. q. aq. font. colatur. Hiss. dissolv. pulp. Cass. recent. extract. Mann. calabrin. an. Zj. col. & fiat potio dividend. in tres part. Aqual. quarum capiat unam borâ. 6th matutină, aliam bor. 7mh tertiam bor. 9nh interjecto jusculo.

or,
By Man. Ziss. Ol. Amygdal. dulc. Zij. capiat ex s. q. Juscul, vel Decott. Tamarind.

Re Fol. Sen. Zij. vel iij. Rhabarb. Zj. coq. in s. q. aq. font. colatur. Zviij. dissolv. K. Syrup.

⁽d) Que valde calefaciunt porius excisant ventos, materias commovendo. Gal. xii. Meth.

Syrup de Chicor composit. & Cass. vel Man. an. 3j. mise, siat Potio.

But if the Stomach be so weak, it can't bear a Purge in a liquid Form, we must necessarily then give it in Powders or Pills, thus

Re Pulv. Cornachin. 3j. vel 36s. capiat in vehicul. commodo.

or.

Be Calomelan. gr. xv. vel Jj. Refin. Jalap gr. vj. capiar ex cochl. j. juscul. vel alterius vehicul, commod.

If Powders prove also offensive to the Stomach, they may be made up into Bolus's or Pills, with the Conserve of Roses, of Burrage, or of Orange Pills, which last generally makes them sit best upon weak Stomachs; or you may prescribe any of the following Pills according to the Strength and Disposition of the Patient.

Be Pillul. Rudii 36s. vel 3ij.

B. Pillul. Coch. major. Dij. vel 3j.

Be Pillul. Coch. minor. 31s. vel Dij.

The first of which Prescriptions is most recommended in this Distemper by Willis, the last most approved of by Sydenbam.

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upon the Stomach, you must then give a dose of Laudanum, and the Purge eight for ten Hours after it; which (especially if in the form of Pills) generally succeeds well. You must always give a dose of Laudanum at Hight assert the Purge, to uppeale the Commotionait has raised in the Blood, and to prevent any discharge of Humans upon the Gas from its Effects. If the Patient be Sick at his Stomach,

Vomit him with a large quantity of Luke-warn Poffet-Drink; of Fat Broth; or of Oyl and Waterinixt together: Violent or thronger Womits are foldom proper, for the same masons that we forbid strong Purges; and the more because they draw a greater discharge of Humours upon the Stomach and Small Gurs, and thereby often turn the Cholick into a Miserere or Iliack Passon; Wherefore they are never to be given but in an extream Necessity, and madifest Indication for them; that is when the Cholick is accasioned by an Excess in Diet or Surfeit, in which case even the strongest Vomits are to be given.

Fomentations of the Belly with hot Oyls, and several Decortions, recommended by various Authors, are not to be apply'd without very great Caution: for they often put the Humours into Motion, augment the Heat and Inflammation, and yet

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make no discharge; upon which accounts they are less us'd by the best Physicians of these Days, and caution'd against even by the Antients themselves. (e.) Not but that they are sometimes beneficial; to wit, when the Pain is almost insupportable, lies outwards, and is accompanied with a violent Tension of the Belly, a Phlogosis or Disposition to an Inflammation. In which cases after Bleeding, and Emollient Clyfters; Emollient Fomentations, and fometimes Hot Oyls, either in Bladders, or having Flannels dipt in them, are apply'd with very good Success. The following are what I have in different Cases us'd with the best Success, and should most recommend veet alwayed because they bear mend with the mend wit

Be Last: Cost. g. f. quo femi-adimpleatur vesica. Abdomini applicand. & renovand. pro re nata.

greater discharge of Humours upon the

B. Ol. Amygdal dulc vel Ol. Lin. Calefast q. f. Method. Supra prascript. regioni Abdominis applicand.

⁽c.) Calefacere Pracordia Cataplasmatibus; & persussionibus non est perpetuo tutum, niss in iis quibus purum est, cateris omnibus est pernicies. Gal. lib. 11. Meth. Cap. 15. Cataplasmata & Persusiones calida hujusmodi Affectibus Phlegmonas accersant. Gal. 12. Meth. Cap. 8. Non oportes ut siat insunctio nec Imbrocatio cum Ægretudo est in Principio &c. Avicenna Trastat. 2. Cap. 55.

have but a very nonferent opinion of Be Capit. Papaver. Alb. (Goncis, & cum Seminib. contus.) Semin Aneth. a 31j. Herb, Malo. Hyosciam. Cynoglof. an. M. ij. Flor. Chamam. M. j. coq. in Aq. font. Tovj. ad Hiv. intingantur Stupb. Lan. fiat express. & deinde calidissim. applicentur Abdomin. renovand, pro re nata.

TO aday () Be Viscera ex Animalib. viv. extract. vel Coria Vervec. eo momento detract. quibus calidistimis involvatur Abdomen; renovensur identidem. tecomic of by Salar and and

Flannel, or a Thin Woollen Cloth worn next to the Skin, and covering all the Belly, is a leffer kind of perpetual Fomentation, recommended by Galen and others; and is sometimes useful in habitual Cholicks, especially in those that proceed from Cold, or Weakness, or from the defects of the Caul; but of no use in Accidental Cholicks, or to the cure of a Paroxism.

Bathing, tho' very beneficial in the Nephretick, has feldom good Success in Humoral Cholicks; and Willis (f) observes that both Bathing and Sweating, are prejudicial in them; but that Diureticks are eer, Green Het Bread, and all Klufelu

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realing of the Sauce & Minding with himfer and Spices, are to be aveledd; as alfo

the too great ele of Lugar, in which there (f) Tho. Willis de Anim. Bruter. cap. 15.

I have but a very indifferent opinion of Plaisters in this Distemper; in which I can positively affirm, I never yet experienc'd the least benefit to have accrued to the Patient, by the use of any kind of

Mineral Waters, and particularly those of the Bath in Sommerfersbire, drank hot upon the place for fix Weeks or two Months, are of all things the most beneficial and fuccessful in Habitual Cholicks.

Cucurbitula cum magna flamma Umbilico imposite, recommended by Galen and many Authors, as what like a Charm eases the Pain in a moment, are not only difus'd by the best modern Physicians; but may and do fometimes prove of very dangerous Confequence. For if the Skins of the Navel should thereby be excoriated, it is a most difficult matter ever to heal them. For which reason, the Exceriation of the Navel was a Punishment us'dby the Ægyptians to Criminals. 10 5105 ser of To.

In the Cholick, the Patients Diet ought to be regular, and of things cally to Digest-No Flesh during the Fir, nor the Day following. Green Fruits, Herbs, Beans, Reafe, Cheefe, Salt meats, Pyes, High Sauces. Pepper, Ginger, Hot Bread, and all Fift, by reason of the Sauce abounding with Butter and Spices, are to be avoided; as also the too great use of Sugar, in which there 21 है। यह अधिक ते देशका है। यह है।

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is a Corrosive Acid. (g.) Their Dinners must be sparing, with gentle Exercise, (if they are able) before, and Quiet after them. Small, early, and very light Suppers. Let their Sleep be protracted longer than usual; and their Bodies kept open, so as to go by Nature or Art, once in 24 Hours, to Stool. They must be warn'd to avoid as much as possible all Passions of the Mind, as GRIEF, ANGER, &c.

All Sharp, Sow'r, and Stale Drinks; Green or New-Wines; Champaign, Syder, Perry, Brandy, and Spirits, are prejudicial in the Cholick. Neither is Wine it self proper, unless mixt with much Water; Martianus, Riverius, Haserus, Akakia, and several other Authors, discommend its being drank alone, and assure us, that by the sole use of it, many have relaps'd into the Cholick immediately, and the Palsy thereby happen'd to others. But a small Draught of Sack or Malaga is allowable now and then by way of a Cordial. An Insusion

⁽g.) Acidum esse corrosivum in Saccharo constat, quia Succus ex quo Saccharum concrescit, extravasatus, intra breve tempus accescit. Et ex Saccharo distillare norunt spiritum Lusitavi, quem Aquadenti vocant, summà cum Stipticitate resrigerantem, linguam constringentem, & intessina torminibus torquentem, metalla corrodentem, Nitrosi Saporis, simul & acerbum. Saccharum etiam, ipsimi quoque dissolvit Antimonium, si nempa eum en distilletur triduana & levi destillatione. Piso.

of Rhubarb in cold Water, is an excelent Drink, in the Cholick, to which you may add a fourth or fifth part of Wine.

The eating of large quantities of Oyl, is proper and beneficial in almost all Cholicks, for it lubrifies and relaxes the Fibres. But it must not be much us'd by those who are not well accustom'd to it, least it prove Offensive to their Stomachs, and

spoil the Digestion.

The use of Garlick is good in the Cholick; every where ready at hand, cheap for the Poor, and is much recommended by Galen (b) and many Authors. It breaks the Wind without raising any great commotion in the Humours; it gently warms the Stomach and Guts, and is Diuretick. It may be boyl'd in Milk, Broth, or Beer; be swallow'd whole, or infus'd in White-Wine, or Water.

A Moderate Regimen and Diet is most advisable in the Cholick; all very Hot things generally speaking prejudicial, which for a little immediate Relief, they sometimes afford, encrease the Pain, and add

new Fewel to the Disease.

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and Or levi destellariant, 1210.

⁽h) Allium amnium plane Eduliorum flatus maxime discutit. Gales. Method. Medend, lib. 12.

In habitual Cholicks nothing is preferable to Riding, so much recommended by Sydenbam.

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SECT. II.

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The Cure of the Cholick occasion d by the Hardness and Retention of the Excrements.

In this Cause the Curative Indications are to soften the Excrements and bring them away by Stools: Also to prevent Inflammations when they threaten. Wherefore an Emollient Clyster is immediately to be given after some one of these or the like Forms. And if an Inflammation arises, or is apprehended, Bleeding is to be order'd, and repeated according to its Violence.

Be Decott, Emollient. His. Ol. Oliv. Zij. Pulp. Cass. recenter extract. Zj. misc. siat E-nem.

Within twelve Hours after it give another thus,

.one who has it as book and order and.

Be Ol. Oliv. modico vulcano tepefact. 3x. injiciatur pro Enemat.

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Be Decost. Intestinor. vel Capit. Ovin. part. ij. Ol. Oliv. part. j. misc. fiat Enem. ad toj.

If neither of the two first Chysters should work, as it often happens in this Cause, give a third made as follows, which generally has the best effect of any.

Be Urin. San. toj. injiciatur pro Enemat.

If a third Clyster should prove inessectual, then Bleed the Patient, and immediately order a Purge to be taken the next Morning, without insisting any longer upon Clysters. It may be prescrib'd in the following, or what other Form the Physician shall judge most convenient.

Be Tamarindor, Ziss. coq. in s. q. Aq. font. Colatur. Hiss. dissolv. Pulp. Cass. recenter Extract. Zij. Cremor. Tartar. solubil. Zj. misc. siat potio dividend. in tres partes equales, quarum capiat unam singulis boris successivis interjecto si videbitur Jusculo tenui.

If these Remedies procure no considerable Relief, Bleed again, and order another Clyster thus.

Decost.

B. Decoth. Intestinor. vel Capit. Ovin 3x. Pulp. Cass. recenter Extract. 3 is. Catholic. pro ore 3j. Sal. Tartar. 3j. misc. fiat Enema.

The next Day the Patient must be Purg'd, and a Paregorick given him that Night, if the Pain be violent, but not otherways. If upon the use of the Remedies the Symptoms are considerably abated, it will suffice to give Diluting things, such as Sack Whey sweeten'd with Syrup of Violett, Marsh-mallows, &c.

The Patient is never to be Vomited in this Case, because that will probably turn

the Cholick into an Iliack Passion.

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Sanctorius (a) extols the following Method, by which he affirms that, of vaft Numbers, he cur'd almost every one in the space of four and twenty Hours.

Re Ol. Amygdal. dulc. modice calefact.

3x. fiat Enem. Statim injiciend. — Quod post 12 bor. repetatur addendo Hier. Picr.

3(s. & eodem intervallo tertià vice repetetur. minor quantitas erit inessicax & eo temporis spatio nibil preter oleum manducet.

I must do this great Man the justice to own, I have frequently met with that speedy

⁽a) Sanctorius Art. pradic. cap. 44.

speepy Success he affirms of this Method, with these Alterations and Additions; that I generally Bled first, and sometimes, to wit when the Pain was extream violent, gave Laudanum at Night; tho' not fo frequently, nor in fuch large Doses, in this as in Cholicks from most other Causes: and did not order my Patients Oyl for their only Food; which tho' it probably agreed well with those of the Country he practis'd in (who from their Infancy are accustom'd to Eat all their Fish drest in Oyl, and to have it mixt with most of their other Meats) does not when taken alone, or in any confiderable quantity, agree with those of our Climate who are not habituated to it, but rifes in their Stomachs and spoils their Appetite. And Use and Custom in Diet, are as much to be consider'd by Physicians, as the difference of Constitutions and Climates.

When the Fit is over, the Patient must use Remedies proper to keep his Body open, and to prevent a Constipation, such as Chewing of Rhubarb or Cassia, taking now and then Laxative Clysters, Lenitive Electuary, &c. He must avoid a Sedentary Life, and continual Riding, both of which dispose the Body to Costiveness.

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The Cure of the Cholick occasion'd by Winds.

THE Curative Indications in this Caufe are, to divide and break asunder the Sulphureous Filaments, and ill digested Particles of the Aliments, which are rarefy'd into Winds; to expel those Winds out of the Stomach, and Guts; and to prevent Inflammations, which are very much be to apprehended from the violent Distention of the Guts, whereby a Compression in the Blood-vessels, and a Stoppage in the Circulation may be occasion'd; The Fermentation and Circulation of the whole Mass of the Blood is also to be quicken'd and enliven'd, least thro' its Coagulation, [the Degree of which is to be judg'd of, by the Degree of Concentration in the Pulse a Syncope or Suffocarion should ensue; wherefore some Blood is to be taken away where the Strengh of the Patient can bear it, to prevent both the Inflammation and Suffocation; after which a Purging Clyster is to be order'd in this or the like Form.

B. Decott. Intestinor. vel Capit. Ovin 3x. in quo dissolv. Diaphenic. 3j. Sal. Gem. vel Sal.

Sal. Armon. Dj. misc. fiat Enem. Salia bec dividunt & atterum muterias que causant ventos.

Soon after the Operation of this Clyfter give the following Julep.

B. Aq. Card. benedict. 3vj. pulver. Viperin. 3j. Sal. armoniac. gr. xv. Landan.
opiat. diffolut. gr. j. Syrup. Aurantior. 3s.
mifc. flat Julap, reiterand. x². quaque bora fi
dolor perfeverat Atrox.

A fecond Clyffer made as follows is to be given ten Hours after the frist.

Be Vin. Malvatic. vel Canarin. generos.

Swiij. Ol. Oliv. Siv. misc. & levi igne cales att. injiciantur pro Enemat. Vinum dissolvit materius in Intestinis contentas sine elevatione Ventorum; & Oleum Sulphureis suis particulis involvit Salia dissoluta, ut nec fermentare, nec elevari in ventos possint. Aliquando Enema ex vino puro vel urina sana conveniet, quod posterius in urgenti casu carteris omnibus est preserendum, in quantum optime dividit materias indigestas.

The fecond or third Day prescribe a Purge, in which it will be very proper to mix some Emetick Medecine, thereby to difengage the Humours, [which are generally

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Carl Sat, nerally in this Cause very viscous, glewy, and tenaceous] from their strict adherence to the Coats of the Stomach and Guts; and for the same Reason it will often be advisable to add a large Dose of Emetick to the third, fourth or fifth Clysters; nor need any one be appenhensive here of turning the Cholick thereby into an Hiack Passion.

By Fol. senn. 3ij. Rhabarb. incis. & sal. Tartar. an. 3j. infund. calid. in s. q. aq. font. colatur. 3vj. dissolv. man. 3j. deinde misc. vin. Emetic. 3j stat Potio sumend.mane.

If after this Purge, and the Emetick Clyfters, the Pain should continue violent,

Be Sal. vol. viper. vel. Cran. buman. 3j. capiat ex jusculo vel alio vebiculo commodo, & repetatur pro re natâ.

If after the use of these Remedies the Distemper should linger upon the Patient, Aperitive Medicines must be given; Steel is admirable in these Cases, but is not to be order'd in Substance nor in strong Doses.

Be Absynth, roman. 3ss. semin. Coriand. Cardomom. an. 3j. Rubigin. mart. [pulveri-sat, & nodul, linteo laxé inclus.] 3j. vel 3iss.

ziss. Rhabarb incis. Zj. Cortic. Aurantior. condit. Ziij. infund. calid. in aq. font. zviij. colatur. misc. Aq. Absyntb. composit. aq. Brion. composit. an. Ziij. bujus capiat cochl. iv. bis in die per 15 dies, purgando in medio & fine.

When the Patient is cur'd of the Paroxism, it will be very proper, especially if the Distemper be habitual, to send him to the Bath in Sommer fersbire, with orders to drink the Waters hot from the Pump for fix Weeks or two Months; thereby to cleanse the Passages, strengthen the Stomach, and destroy the fixt Acids of the Blood, which would otherways endanger a Relapfe. But if the Patient cannot conveniently go thither (for those Waters are of little or no advantage, in this or any other case that I know of, when drank from the Bath itself) they may be supply'd by Viper Broths which divide and volatilizise the fixt Salts of the Blood.

B. Carn. Viper, unius exentrat. (truncat. capite & cauda,) contund. in mortar, marmor. deinde coq. lento igne in s. q. Aq. font. per 2 bor. vafe vitreato & diligenter lutato; col. & fortiter exprime; capiat ager mane in Lesto, per modum Juscul. cooperiendo corpus per ij. vel iij. bor. & repetatur per x dies.

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Where Vipers are not to be had, give Crafish Broths made according to the Formula deliver'd in the abovemention'd Book of Vapours, pag. 217, edit. 2. to be continued for x or xv Days.

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Clysters in this Cause ought to be given in lesser Quantities than usual in other Cholicks, because the Winds filling the Guts don't leave room for so much to be admitted, and often force back what is given.

Garlick so much recommended by Galen, as what breaks the Wind without raising any great Commotion in the Humours, is of good use here; and it helps to make a discharge by Urine. But I have never seen any good effects of Cucurbitula cum magna slamma Umbilico applicate, also much recommended in this Case by Galen and many of the Antients; but on the contrary am very apprehensive of ill Consequences from their Use; and it is certain they can never carry off the Cause, tho' they may possibly give Ease for a time.

Warm Cloths ty'd hard round the Belly afford fome Relief, because by their Compression they hinder the violent Distention of the Guts, and slacken the painful Dilatations of the Muscles of the Abdomen. Add to this that by the new Sensation of Warmth they give to the Skins of the Belly, they make a fort of Diversion in the Course of the

Spirits,

Spirits, and thereby give the Patient a lit-

The drawing away of the Winds mith on empry Seringe, mention'd by Hippocrates and some of the Antients, can hardly be of any advantage; for whilst the Cause remains. which it cannot remove more Winds will arife; wherefore I should absolutely never advise it in Cholicks occasion'd by the Wind. Nor indeed have I ever order'd it my self in any case whatsoever; but am certainly inform'd that a celebrated Phylician who died in London about fix Years ago, being habitually troubled with a violent Cholick, found great Benefit by this Pumping; and having taken both Purging Clysters, Potions and Pills, was oblig'd to use frequently the Empty Seringe, before any Evacuation would enfue; and that he not only us'd it himself for many Years, but often prescrib'd it successfully to others. And it feems reasonable, that where the Peristaltick motion of the Guts is either deficient or weak, it may afford great selief by emptying the Rectum and part of Constitution of the Property of the Constitution of the constituti the Colon.

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SECT. IV.

The Cure of the Cholick occasion'd by Crudities and Indigestions of an Acid Nature.

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THE Indications in the Cure of Cho I licks arising from this Cause are, to differe and attenuate the fix't Acids into lesser Particles; to evacuate and carry off the Indigested Aliments from the Stomach and Guts; and to prevent or remedy that Thickness and Coagulation of the Blood, which fixt Acid Humours produce. To which ends it will be sometimes proper to Bleed the Patient, to wir, when a Syncope or Suffocation (which often ensue from the Coagulation by the Blood) is apprehended, and the Physician finds by the Pulse that he is able to bear it. A Offer may be also given, tho' not so absolutely necessary in this, as in Cholicks proceeding from most other Causes, Purges ought always to us'd much fooner here. It will be generally convenient to give a Vemit at the beginning, and that of a little stronger Nature than in the foregoing Cause. Oyland Tepid Water, or Far-broth, may be first try'd; but if they are not sufficient to make a pretty good discharge, an Infusion of Cardinis Benedictus or Ipecacuan.

gr. xii. must be given; and the following draught, one or two Hours after the Vomit has done working.

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By Aquar. Borragin. Bugloss. an. 3iij. Corall. rubr. ocul. Cancror. praparat. Cortic. Peruvian. pulverisat. an 3ss. Sal. Armoniac. 3ss. misc. fiat baustus, cui, (si dolor sit atrox) adde Laudan. opiat. dissolut. gr. j. vel gr. iss. miscentur bic volatilia cum fixis, ut presto sint tam qua attenuent, quam qua absorbeant diversa indolis & natura materias, & ut sanguis animetur; Pulsus enim bic est Concentratus.

Having thus prepar'd the Humours, they are to be purg'd off the next Day, to which end,

By Fol. senn. Ziij. Rhabarb. Zj. Sal. Tartar. Zs. infund. calide in aq. font. q. s. Colatur. dissolv. Man. Zj. Falap. gr. xv. vel Diagrid. gr. vj. misc. fiat Potio sumend. mane cum regimine.

We order stronger Purges here, because a greater discharge is requisite, and we give them sooner, because the Cause shewing itself at the beginning, (by the Belching and Vomiting, and sometimes by a Loosness) to lye in the Guts and Stomach, the speediest Method to effect the Cure will

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will be to discharge those Matters, before they enter into, and affect the Blood; and there is little or no danger here of promoting thereby a discharge of Humours upon any Part; because the Cause is not furnish'd from the Blood, but resides in the Indigested Aliments contain'd in the first ways, consequently by Purging we both remedy the present Symptoms, and prevent their encrease; and as Purges evacuate both from the Stomach and all the Guts. they are preferable here to Clysters, which reach only to some part of the Latter. After the Purge repeat the former Julep that Night, and the next Morning, and continue its use twice in 24 Hours at proper times, for two or three Days; then give Corrie. Peruvian. for five or fix Days in the same manner as for an Ague, thereby to absorbe the fixt Acids, help the Digestion, and prevent the Returns of the Cholick. The Humours being of a fixt Nature, Laudanum is to be given more sparingly, and not so soon here, as in Cholicks from other Causes, unless the Pains are violent, in which Case it is always to be given immediately.

When the Indigestions are Stercorous, and accompanied with a Loosness to which is join'd a violent Pain in the Belly resembling a Gholick; the Cure is to be that of a Diarrhaa, only more Laudanum is to be

be given in Proportion to the Pain. These are all the Alterations in this Cause from the Cure of the Cholick in general. The Symptoms and Signs by which this Cause is distinguish'd from or there are deliver'd Pag. 103. and its Prognosticks Pag. 119.

SECT. V.

The Cure of the Cholick occasion d by the overflowing of the Gall; or, by Acrimonious and Corroding Juices.

HE Indications of the Cure from I these Causes are; First, To allay the violence of the Pain by Amdine and Narcoticks: Secondly, To prevent Inflammations by Bleeding, and other Remedies proper for that Purpole, mention'd in the first Section of the Gure. Thirdly, To correct the Acrimony and corresive Irritation of the Humours; either by dividing their Salts into leffer Particles, which Attenuants and Disfolvents will effect, or by sheathing their Points in Alkaline and Abforbent Remedies; either of which will lesfen the Violence of their Action. Fourtbly, To evacuate those Humours thus prepared. Fiftbly, To correct and sweeten the Blood, when the Fit is over, thereby to prevent 1 + 1 + 1 1 1 1 . .

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prevent its return. To these Ends Bleeding is first to be order'd; and this, or the like Clyster some Hours after it.

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If the Patient be fick at his Stomach. (which in Cholicks from these Causes, generally proceeds from the overflowing of the Gall into it) Vomit him with Oyl and luke-warm Water; or with weak and fat Broth: But all stronger Vomits are carefully to be avoided, least you thereby turn the Course of the Humours upwards, and change the Cholick into an Iliack Pathon: Laudanum must be given the first Night, or fooner if the Pains be violent. After which, especially if it be in hot Weather, make the Parient drink a great quantity of cold Spring Water. For as Sylvius obferves, nothing corrects the Acrimony of the Gali like to the Spirit of Nitre; now in cold Spring Water there is much refin'd Nitre, which will answer that Indication; and the great quantity of Liquid will both distolve the Acrimonious Silts of the Gall, or of the Corrolive Humours, Relax the Fibres, and cool the Parts. Nor ought this Practice to be flighted, because casic, and without any Pomp of Remecalled a subject with the Lat. Allered at any dies,

Englished The property of the State of the S

dies, whose Properties are unknown to the Patient; for it has been often us'd with great Success, and is much Recommended by Galen (a.). Paulus Ægineta (b.) Forestus (c.) Amatus (d.) Septalius (e.) Fortis (f.) Zacutus, Riverius, Chirac, Barbeyrac, and

(a.) Gulenus lib. 12. Meth. cap. 7.

(b.) Medicus quidem in Italia curavit Colicam victus quadam ratione infideli, refrigerante, & maxime temeraria; Lactutas enim non coctas, refrigerantesque ipsis porrigebat, Intybumque similiter supra satietatem commedendum; item Uvas, Mala, Pisces dura carne preditos, omniaque crustacea, Pedes Bubulos, Bulbos, & similia, non: solum facultate sed & tactu frigida; vinum raro prabebat, cum autem dabat frigida miscebat, ipsamque frigidam, vel etiam Poseam frigidam exhibebat, ab omni calido & medio ciba abstinens; atque plurimos sie prater omnium opinionem sanavit; imo nonnullos qui in morbum Comitialem. vel Resolutionem prolapsi erunt, propemodum sanitati restituit. Paulus Ægineta lib. 3. cap. 14.

Tho' this Practice is so much inveigh'd against by Agineta, I take the Quetation to make for my Affertion; for the extraordinary Success that Physician is own'd to have met with by it, is a sufficient Recommendation of it; and the succeeding Experiences of many able Men convince us, that a cold Regimen is beneficial in Cholicks from this Cause. And the' some of his Prescriptions, especially that of eating more than the Stomach traves for, may be rash; yet the Method in the main, of giving Gooling Things, as boyl'd Method in the main, of giving Cooling Lettice, or Endive, roasted Apples, cold Water, and the Abstinence from Wine, is not only allowable, but of great

Advantage.

(c.) In Colica Biliofa, frigida Aqua usus sum in iis quorum vires robustas & partes principales illasas deprebeni: ac feio me levasse omnino dolores de totum morbum ne reverteretur probibuisse. And, Dedi filio Falconis in Colica a causa calida Aquam gelidam; insuper Linteum Aqua frigidi

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and many other great Men. Yet Note carefully, that this Practice is never to be made use of, but in Persons of a sound Habit of Body; nor even in those without the Advice of a judicious Physician: For it is no easie Matter to distinguish rightly when tis proper, and if us'd otherwise it may prove very Prejudicial.

To those who are apprehensive of, or unwilling to take cold Water alone, its Use may be supply'd by some one of the

following Prescriptions.

Decost. Lastuc. vel Acetos. part. iij. Acet. part. j. misc. capiat. Ziv. pro baust. repetend. pro re nată. boc magni siebant a Medico magni nominis nunc vivente, qui asseruit illud maxime acrimoniam corrigere, & leniter evacuare. Insuper refrigerat. Sylvius tamen & nonnulli alii medici Acetum penitus probibent in Colică.

R Aq.

frigidà immersum & manu pressum Umbilico admoveri jussi; Diapapaver in Rotulis, & insuper Aquam Endroia exhibmi, quibus paucis intra triduum Sanus factus est, non sine multorum admiratione, & Artis medicina decore. Forestus lib. 21. 0b. 12.

⁽d.) Mulieres dua Colicâ a causa calida laborantes, ex potu Aqua frigida incantamenti instar doloribus lavabantur, qua non amplius redibant. Amatus lib. 1. cent. 2.

⁽c.) Septalius lib. 7. Animad. practic. cent. medic.

⁽f.) Fortis confult. 93. cent. 2,

By Aq: Acetof. Aq. Chicor, an, 3vj. Syrup. Papaver. Alb. 3iij. Spirit nitr. gut. xl. misc. fat mixtur, cochleatim. sumend. ad libitum.

B. Aq. Acetos. Plantagin. Chicor. an. 3ij. Syrup. Cortic. Aurantior. 3j. Spirit. nitr. gut. Kij. Laudan. Opiat. Londinens. dissolut. gr. j. misc. siat haust. bora ante decubit. sumend.

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The common Emulsions of cold Seeds are proper to be taken every Night in this Cause, adding to each Dose Laudan. Opiat. Lonondinens. dissolut. gr. j vel is. Also Tartar. vitriolat. Is. vel Ij. or Spirit. Nitr. gut. viij. vel Xij. in baust. Aq. Lactuc. vel Endiv. which Spirit is the best Corrective of Acrimonious Humours, especially of the Gall, and almost a Specifick for it. Having thus prepar'd the Humours, they are to be evacuated by Purges; of which here follows several Formulas proper in this Case.

B. Decott. Tamarindor. Hiss. infund. calid. Senn, Zij. Tartar. solubil. Zs. Dissolv. Cass. recenter extrast. Zj. Col. & siat potio tribus baustibus sumend. interjesta intra utrumque bor. una.

or.

B. Pulp, Tamarindor, Zij, Conferv. Rofar. pallid. 3x. Elect. e fucco Rosar, pallid. Zj. Sal. tartar. vitriolat. 3j, fiat conditura, cujus capiat ad nuc. moscat, magnitud. vel Zs. pro re natâ, or, or.

Be Elect. Lenativ. q. s. capiat sapius in parva dosi,

Be Cremor. Tartar. 36s. Last. Cost. Ibis. vel Itij. bulliant simul, & fiat Serum, Sacchar. edulcorand. Cola, & capiat repetitis baustibus intra kor. j. boc optime dissolvit salia irritantia, Refrigerat, purgat leniter, & Acrimoniam Bilis demulcet.

Hiera Picra is much recommended in this Case by Galen, as a great Corrective of the Acrimony of the Gall; and with it he immediately begins the Cure: But the succeeding Experience of many great Physicians shews, that it is more proper first to correct the Humours, and even then not to give it in this Case alone, but mixt with Purgatives of a more cooling Nature. As,

Be Pulp, Cass. recent extract. 3j. Hier. Picr. 3iss. misc. fiat Bolus borâ commodâ sumend. superbibend in operat, ser. lact. cum Cremor. Tartar. fact. q. s.

After the Paroxism is entirely cur'd, it will be Necessary in those, to whom this Cholick is habitual, to correct that Vice of the Blood and Humours which occasion'd it; to which end Diluting, Sweetning,

ning, and gently Evacuating Remedies are to be prepar'd. As,

Radic. Acetof. Gramin. an. 3j. fol. Acetof. Borragin. Lactuc. an. m. j. coq. in f. q. aq. font. cum dimidio Full. & fiat Jufculum ad 3viij. vel x. sumend. mane jejuno stomacho, & repetend per 9 dies. purgand. cum Cremor. Tartar. 3s. in medio & fine.

After the use of these Broths, let him drink a Pint of Whey every Morning for a Fortnight, and then enter into a Course of Ass. Milk, to be continued for a Month or Six Weeks.

The Use of Brandy, Spirits, strong Cordials, and of all Hot Things, in general, is absolutely to be forbidden in most Cholicks, but in these to be avoided like Poison. For as Galen (a.) well observes, 'tis from a Preternatural Heat and Driness that the Distemper arises; whence 'tis plain, what augments the Heat will encrease the Disease. In another Place (b.) he tells us, that all Hot Medicines and Hot Diet aggravate this Evil. And not with standing the Experience

^(2.) Hac enim ex ventriculi caliditate ex siccitate, & amarâ bile in ipso congesta solet accidere. Galen lib. 2. de loc. affect.

⁽b.) A calidis tum cibis tum medicamentis irritantur, & ab omni calorifica victus ratione. Galen. lib, 1, de loc, affect.

perience of all succeeding Ages confirms the Truth of this Assertion, yet there are found not only Patients who, to this Day, are fond of them, for the little present Relief they afford; but even some Physicians who injudiciously allow of them.

SECT. VI.

The Cure of Cholick occasion'd by the Alteration of the Gall into what Physicians call Atrabile.

HE Indications for the Cure differ A very little in this Cause from the Preceding, only that we are to Bleed oftner, when the Pulse will bear it, because. Inflammations are more frequent and dangerous here. It is carefully to be noted, that whenever the Pulse is so much concentrated, that you can scarce perceive any Motion in it, then you are never to bleed upon any account whatfoever. For by Bleeding in such case you may occafion a Syncope, or perhaps immediate Death. And in all Cases, where 'tis judg'd absolutely necessary to bleed whilst the Pulse is low, the Physician ought to keep his Finger upon the Patient's Pulse all the time he is bleeding, and order the ER.

Ligature to be loos'd the moment the Pulse is low.

Laudanum must be often repeated, and given in larger Doses in this Cause. The Clysters for the most part ought to be compos'd of cooling Oyls and Milk. The eating of as much Oyl as will agree with the Patient's Stomach, Milk also for common Food, are very beneficial here. Asses Milk upon the decliming of the Fit, and for a Month or six Weeks after, is of vast advantage, both to perfect the Cure, and to prevent the return of the Distemper. Jesuits Bark is also a good Remedy. For the rest, this Cholick, when 'tis obstinate, and does not yield to these Remedies, is to be treated like the Cholera Morbus.

SECT. VII.

The Cure of the Cholick occasion d by the Gall's penetrating, and insinuating itself into the Coats of the Guts, Stomach, and other Parts of the Lower Belly.

THE chief Indication in this Cause is to prevent Inflammations which are here very frequent and dangerous, wherefore Bleeding must be often repeated; and

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as Remedies proper to the Cure of a Biliaus Cholick have generally preceded, before the Physician has grounds to suspect, at least sufficient Proofs to conclude, the Existence of this Gause'; no alteration from the Cure of Bilious Cholick is to be made, till by its not yielding to usual Remedies, and by the Presence of the Symptoms enumerated, pag. 107, this is suspected. Then the only Addition, in my Opinion to be made, is the use of gentle Steel. Strong Steel, or even the common most moderate Preparations of it, will heat too much.

Rubigin. Ferri (rore maiali vel fuceo pomor. acidulor. ruduct.) pulverifat; & no-dul. linteo laxé inclus. Ziij. Affund. Aq. font. fervent. thiv. stent. ad refriger. & infund. per bor 24st colatur. capiat zvj. vel viij. bis in die per viij. vel ix. dies.

I know the use of Steel is not a common Practice in Fits of the Cholick; I believe many will exclaim against it as an Innovation upon usual and established Methods; and perchance some may oppose it, as rash, prejudicial and contrary to all Practice. It may be particularly objected against it, that it Hents, and therefore is of all things to be avoided in this Distemper, wherein hot Remedies are generally noxious, but more especially in this Cause.

To which I answer, that no one is more averse to heating Remedies in the Cholick than my felf, that I know very well all the common Preparations of Steel have that effect, and are therefore improper during the Fits; but this Preparation of it is not heating, and my own Experience convinces me, that it has entirely cured feveral in eight or ten Days, who had ineffe-Etually taken many other usual Remedies for Months and Years. It not only cur'd the Fits, but prevented their Return; and I doubt not, but that others who are pleased to try it will find the same Esfects. has history and

The Confiderations which led me into this Practice were, that when this Cause is suspected or discovered, the usual Method is, to order Narcoticks, Anodins and Coolers to allay the Pain and Heat, and to repeat Purges, thereby to Discharge the Humours from the Part affected. The first making no Discharge of the Humour from the Part, can only appeale the Pain for a time, but never effect the Cure; and the latter can hardly reach it, so as to occasion a total Discharge, its obstinate continuance, and frequent returns for Years after repeated Purges, is a sufficient proof of that. Add that Purges constantly occafion a greater Separation of the Gall into the Guts, whereby 'tis probable, that more

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more of it will be imbib'd into those parts of them, into which it had penetrated before. Wherefore no Method seem'd so proper as such a one, which by gently Dividing and Attenuating its Particles, could cause it to be gradually remixt with the Blood. This Steel effects, and given in this manner (which for the most part rather Cools than Heats) it entirely answers the Indication, and has seldom, in my Practice, mist the Cure, without any Inconvenience.

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The Cure of the Cholick occasion'd by Sharp or Sow'r Humours difcharg'd foom the Blood upon the Guts, Stomach, or other Parts of the Lower Belly.

THE Indicationshere are, to allay the Pain; to earry off the present, and to prevent greater Discharges of the Humours. Bleeding is seldom necessary in this Cause, because the Humours being of an Acid Nature, don't greatly threaten Inflammations. Purges are not to be M given

given at the beginning, as Galen (a) obferves, because as they bring down a greater Discharge of Humours from the Blood upon the Guts, they would consequently encrease the Evil; nay, even the gentlest Clysters augment it: Wherefore the frequent use of Laudanum, and a thickening Diet, with Absorbent Juleps of Corral, Crabs Eyes, Jesuits Bark, &c. ought to be the only Med'cines for the three or four first Days. Anodins and Narcoticks alone, are the chief, and generally sufficient Remedies. Tho' what the Patient Vomits up should be Green, which is the worst Colour the Humours can have, ftronger Vomits than luke warm Water and Ovl. or fat weak Broth, are never to be given in the Cholick arising from these Causes; for if, by a Vomit, you should procure a Discharge of ever so much greenish Humours to Day, the Stomach will be loaded with as much or more to morrow, separated there in greater quantity by the Action of the Vomit.

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⁽²⁾ Non ob Febrem purgamus Ægrum, sed ob humores facientes febrem, unde multo majorem oportet sieri a Purgantibus remediis utilitatem, quam sit quod ex caliditate ipsorum sequitur detrimentum. Galen, lib. 1. Aphor. 4. cui merito addi potest quam ex secretione ab illis facilà sequitur detrimentum.

Gentle Purges are to be given about the fifth or fixth Day, that is, when the Pain and Irritation are well allay'd, but not before as Galen instructs us (a). The following Case in Galen (b) is worth Observation, and his Method Instructive.

Atalius, a Youth subject to the Cholick. was much purg'd by the Juice of Scammony, the third Day after it he takes Cold, and had many Stools with sharp Pains; the fourth Day the Pains in his Belly encreafing, he took a Clyster ex ol. Rutac. by which the Pains grew violent, and a great Loofeness succeeded. This Galen took for an evident fign, that some Humours were discharg'd from the Blood upon the Parts of the Lower Belly, which he attributed to the use of Scammony, that had made a Defluxion chiefly upon those Guts which were weak before. He order'd his Patient Alica and Pomegranate Seeds boyl'd together in Spring Water, a Dissolution of Sumach for his Drink, Bread alone dipp'd in old rough Wine, and Aftringent Fruits, as Pears,

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⁽²⁾ Deinde cum minus eum a Colico cruciatum intellexi, vitios sommores purgandos judicavi. Et, semel hominem purgare non sum ausus quod doloribus & Inediâ duobus mensibus confectus esset, verum ex quibusdam intervallis moderate id faciens, quindecim diebus hominem prorsus sanavi. Galen. lib. 12. method. cap. 7.

⁽b) Galen, lib. 12. method. cap. 7.

Pears, Quinces, &c. for his Diet, and in the end a Dose of Theriac. by which he cur'd him.

This Method, which is without any pomp of Medecines, confilts in Cooling, Thickning, and gently Aftringent Remedies. Alica is a Pulse made of a fort of Whear, affording a cooling and thickning Nourishment, much used by Galen in Fevers and Inflammations, yet he adds Pomegranate Seeds to make it still more cooling. Sumach is both cooling and gently Aftringent: All the Diet moderately Aftrigent. The Theriac given at last Comforting and Strengthning. Where you must note that there had been a great Evacuation made by the Scammony, before he gave even moderate Astringents; for the proper in this Case, they are never to be made use of, till after a sufficient Evacuation, and even then you must always begin with those that are most gentle, and augment them gradually. A ban , suit William A

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(a) Calen lib. 12. method. cap. 7.

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The Cure of the Cholick occasion'd by Corrosive Humours discharg'd from the Blood.

THE Indications for the Cure in this Cause, are, 1st, To Mitigate the Violence of the Pain; 2dly, To Prevent Instammations, Erosions and Ulcers; 3dly, To correct and carry off what Humours are already separated upon the Parts, and to prevent any farther discharge of them. Lastly, to remedy the Disorder in the Blood, and thereby prevent any return of the Fits.

The beginning of the Cure is to be entirely the same with that of the Overflowing of the Gall deliver'd in Sect. 5. Cooling Remedies, Anodins, Narcoticks,
Sweetners and Incrassants, are some or all of them to be order'd, and often repeated.
Upon the decline of the Fit, Mineral Waters, or a Milk Diet, after the Body is prepared for it, one of the two, are never to be omitted. As the gnawing Irritation of the Stomach is very troublesome, the Patient must be allow'd to eat often; but of Meats that are cooling, thickning, and of case Digestion. All heating things,

whether Food or Medecines, must be

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The following Case is very remarkable, and no doubt many of the like Nature would be met with, if Diffections were more frequent. A very fat Man who had been afflicted with the Cholick four Years, and treated with all proper Remedies ineffectually, fell at last into a Marasme or the Extenuation of his whole Body, and died. Being opened, all the Parts were found entire and found, only he had no Gall-Bladder. Upon diffecting his Guts, the Surgeon's Fingers were perfectly excoriated, or flead, by the sharp corrosive Humour that was in them. 'Tis to be noted, that this Man had been long fubject to a Rheumatism, which left him so foon as the Cholick seiz'd him; an evident fign, that the Humour of the Rheumatism was translated, and thrown upon the Guts, to cause the Cholick; so that it was properly a violent Rheumatism of the Guts. I was present my self at this Diffiction in Montpellier, and receiv'd this

⁽a) Vidi hominem a calidis tum cibis tum medicamentis, atque ab omni calorifica victus ratione irritari, rursus juvari a temperatis, insuper inediam ei noxam inserre; sensus doloris erat mordax, unde conjeci mordacem humorem ad affecti intestini tunicas defluxisse. Galen lib. 1. de loc. affect. cap. 40

Account of what had preceded it from the Deceafed's Physicians.

sage of Republican Cyricis to remove the

SECT. X.

The Cure of the Cholick occasion'd by the Translation of the Humours of the Gout, Scurvy, Rheumatism, Venerial Distempers, &c. upon the Guts, or other Parts of the Lower Belly.

THE Indications and Method of the Cure in these Cases, are in general much the same as in the Sections, V, VIII and IX. but when the Cholick evidently proceeds from a Translation of the Goutist Humour upon the Guts, or other Parts of the Lower Belly, you must endeavour to throw it out into the Extremities, treating the Patient like one actually seiz'd with a Fit of the Gout in his Stomach, only that strengthning and repelling Clysters are to be added, and chiefly insisted upon, when this Cholick is judged to reside in the Guts themselves.

If the Cholick proceeds from a Rheumatick Humour translated upon any Parts of M 4 the would do one in a Rheumatism, with small regard to the Cholick, except the ordering of Repelling Clysters to remove the Humour from the Guts, it being less dan-

gerous in the Muscles.

When the Cholick arises from Venerial Causes, it can be cured only by Mercurial Medecines, all other Remedies will prove inessection. When it proceeds from the Source, no Alteration from the Cure of the Cholick in general is requisite, except only giving Antiscorbuticks by Intervals.

SECT. XI.

The Cure of the Cholick occasion a by Obstruction and Swelling of the Glands of the Guts.

THE Indications and Method for the Cure during the Paroxism, are the same in this Cause, as deliver'd in the Cure of the Cholick in general, Sect. 1-When the Paroxism is ended a Steel Course will be necessary, to remove those Obstructions, which may otherways end in Suppurations or Ulcers. Strong Steel is carefully to be avoided, for by Heating too much,

much, it would cause the Return of the Fit, and consequently interrupt the Continuance of the Steel Course before any confiderable Advancement can be made towards the Removal of the Caufe. It may allo occasion an immediate Suppuration or Ulcer, which 'tis the chief Indication to prevent. Wherefore we must always in this Cause begin with extream weak Preparations of Steel, augment them by almost insensible degrees, and continue their moderate use for two or three Months; which may be done with very little trouble to the Patient, and without hindrance of Bulinels. Aperitive Mineral Waters are excellent in this Cafe. same and alio restal

SECT. XII.

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The Cure of the Cholick occasioned by a thick viscous, white Matter, term'd Pituitous and Cold by the Antients.

THE chief Indications here are, to ellay the violence of the Pain, which may be performed by the use of Anodius and Narcoticks; to disengage the Viscous Matter from its adherence to the Guts, and the vacuate it out of the Body, both which may

may be effected by Clysters, Purges, and other Remedies hereafter mention'd.

The two or three first Clysters must be made of Fat weak Broth, Butter, and Oyls, for nothing Incorporates its felf with, and dissolves viscous glewy Humours, like greafic and oily Substances. To the following Clysters it will be proper to add fome Oil of a more subtile penetrating Quality, such as Ol. Sabin. Laurin. Rutac. vel Corn. Cerv. in quo Ruta fuerit Costa, to dissolve and attenuate the viscous Humours still more; for they adhere very Obstinately, and require much Preparation to be disengag'd: Clysters compos'd with these # latter Oils sometimes cure this Cholick immediately; but if they have not the defired Effect, add to some one of the former Prescriptions Aq. Benedict. Ruland. 3j. vel jj. or Vin. Emetic. 3iv. or Inji-ciantur Enemat. Antimonial. a Riverio & Sennerto Proposit. que optime conveniunt in urgenti Casu. or B. Vin. Hippocrat. toj. injiciatur pro Enemat. Sanavit. nonnullos in momento.

Soon after the Operation of the Clysters, give these or the like Remedies inwardly, to prepare the Humours for Evacuation.

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Be Ol. Amygdal. Dulc. recent. express. 3is. vin. Canarin. opt. 3s. Syrup. Papaver. Alb. 3ij. misc. sat baustus. —
Platerus.

By Oxymel. Scillitic. mel. Rosac. an. 3ij.

Aq. Vit. Juniperin. vel Anisat. 3j. misc.

intime, bujus capiat cochl. j. bis vel ter in

die.

B. Aq. font. fervent. ziv. Ol. Oliv. zj. Piperis crasciuscule trit. grana aliquot. stent in infusione; bujus capiat cochl. iij. vel iv. quantum potest calide; Sedabitur dolor fere in momento. Riverius. (a.)

In diuturno affectu bujus Colici, Decoctum Guayaci cum vino, intermissis Purgationibus, falici cum successu usurpavit Amatus.

Be Cicad. no iij. Piper. an. pulverisentur, & sumantur ex vehiculo commodo. I have never us'd this, but the Authorities of Galen and Aetius, who recommend it, are very great; and we may certainly give Hotter Remedies in this, than in any other Cholicks. Galen cur'd himself in this Case cum Enemat. ex Ol. Rutac.

Zedoaria,

there is not block start is com-

⁽a.) Lazarus Riverius Praxeos lib. x. cap.

Zedoaria, Tinetur. Crac. cum Spirit. vin. extract. Vinum Absynth. vel Juniperin. Zinzib. condit. are Recommended by very great Men. After the Humours are well prepar'd give a Purge or two in these and the like Forms.

B. Hier. Picn. Zij. Eletuar. Lenetiv. q.

Re Pulp, Cass. recent. extrast. 3s. specier. Hier: Picr. 3j. vel ij. Ol. Amygdal, dulc. 3j. misc. fiat Electuarium molle sumend, mane cum regimine, quod egregium est ad Pituita eductionem nec sinit post ejus usum Alvum indurescere. Gaspar Hosmanus.

I am apt to think, that if ever Cucurbitule cum magna flamma can be of Use, tis in this Cause. For it seems reasonable and conform to the Experience of outward Matters, that as the Heat of Fire dissolves Glew, and thereby loosens it from its close and frict adherence to other Bodies; so this Heat may dissolve those viscous tenacious Humours, and thereby difengage them from their Adherence to the Guts, whereby the Pain may possibly be eas'd in a Moment, as Galen and others As I never have try'd it, I cannot answer for the Truth of the Fact, but only deliver thus my own Thoughts of it. As Heat

Heat destroys the Spring and Elasticity of common Air, I will not deny but it may have the same Effect on the Winds contained within the Guts, which are an exalted Air arising from ill-digested Aliments, and consequently that Cuturbitula cum magna slamma, may here possibly give some Ease for a short time. But the Effect of that Heat ceasing, those Winds will soon recover the Strength of their former Elasticity, whereby the Pains will return, so that this Method can never produce an absolute Cure.

SECT. XIII.

The Cure of the Cholick occasion'd by Inflammations.

THE chief Indications here are, to allay the Violence of the Pain; to prevent the continuance and encrease of, and lessen the present Imstammation; wherefore we must Bleed more frequently, and in larger quantities, Prescribe more and larger Doses of Narcoticks and Anodine Clysters; shun absolutely all heating things, and insist on cooling Medecins, as Spirit. Nitr. Vitriol. Emuls. ex seminib. frigid. Enemat. ex Oleis maxime Lini. vitentur Ol.

Chamamel. Rutac. Laurin. Caftor. &c. & exulent penitus vel levissime purgationes durante Paroxismi savitia.

Fernelius (a) describes a Pain seated in the Peritoneum, and Membranes, frequent in dry and hot Seasons of the Year, which he calls a Baftard Cholick, and has in my Opinion a great resemblance of a Pleurisie, being occasion'd by the Inflammation of the Skins and Membranes within the Lower-Belly. It is also taken notice of by Hippocrates (b), and its Cure consists in Bleeding, as that of the Pleurifie and other Inflammations does.

leffen the prefine leafingerition and mollel fore we must bleed more frequently, and

in larger systemicies, Eveletiber more and . larger Hotes of Marchick and should

Wite, Variol. Emalf. est forniss b. frigid Fromat, ex Givis maxime Link, visence- Ol.

select rives in a result fleoring of ac-

and Section of Cooling Medicions, at Section

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⁽a) Non raro dolores Hypocondriorum, presertim in tempestatibus calidis & siccis, & habitu graciliori observantur. quos Illegittimos appellant, in Peritonao & Membranis fedem habentes. Frenelius.

⁽b) Quibus dolores Hypecondriorum Hapatis & partium circumstantium, bi si fanguis excernitur, fanantur, si non moriuntur, quia metus Inflammationis. Hippoc. in Coiyear the continuance and encrusic

SECT. XIV.

The Cure of the Cholick occasion'd by Worms and other Insects.

THE Indications here, are, 1st, to allay the Violence of the Pain, to which end Bleeding may be order'd, but Narcoticks are the chief Remedy. 2dly, to disengage those Insects from their Adherence to the Guts, to sicken, kill, and discharge them out of the Body. To which ends,

Resemin. Santonic. pulverisat. Ziij Ætbiop. mineral. sine igne parat. Ziss. Ol. Absynth. gut x. misc. siat pulvis, cujus capiat Zss. Jij. vel Zj. secundum atatem, manè & vesterè per iij. vel iv. dies in pulpa pom. cod. vel alio vebiculo commodo; & singulis nostibus Enema Dulce ex Laste melle & saccharo, quibus alliceantur (dulcibus enim delectantur) ad insimam partem Coli, vel in Intestinum Restum, & inde sequentibus diebus facilius per Purgantia medicamenta excernenter. Ad quem sinem die 4^{to} vel 5^{to}.

R. Calomelan. Jj. Resin. Jalap. gr. iij. Conserv. Rosar, q. s. ol. Absynth. gut. j misc. fiat bolus sumend mane borâ stê vel 6tê superdormiendo. Eadem nocte celebretur Enema.

R. Ol. Oliv. Urin. san. an. 3x. vin. Emetic. turbid. 3111. misc. fiet. Enem.

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This Clyster taken soon after the Purge (which, and the foregoing Remedies, generally make the Worms sick, and draw them low down) smothers them in the Oil, and disengaging them from their adherence to the Guts by the violent Action of the Emetick, and brings them away by Stools.

Aloes is a very good Purge in this Case. Its bitterness kills the Worms, and it both corroborates and evacuates, as Galen and others observe (a). Paracelsus (b) says that Hypericon apply'd to the part opposite to that place where the Worms lie, will make them remove their fituation, confequently would be of use when they adhere obstinately to any part of the Guts; but I will not answer for the Fact which I have never try'd. This Cause ought to be always carefully examin'd into, being more frequent even in adult Persons, than is commonly imagin'd, and many by the neglect of a Cure for it in time, have died Convulfive, or have been eaten thro' by Worms,

(b) Paracelsus lib. de Lumbricis.

⁽a) Galenus in lib. Simplic. Diascorides lib. 3. cap. 23. Mesue. cap. 1. Simplic.

as several Authors testifie. (a). The following Cases are remarkable. Two Girls one of Seven, the other Nine Years old, were feized with most violent Cholicks, and insupportable Pains in their Bellies, which no Clysters, Purges or Worm Medecines could appeare. The eldest being Dead, was open'd, whereby Worms were discover'd, which had gnaw'd Holes quite thro', several Places of her Guts, especially thro' the Colon. The younger dying afterwards, and being likewife diffected, they found not only Holes eat quite thro' her Guts by the Worms, but that they had also gnaw'd themselves Nests in her very Heart and Liver. Riverius (b). Another Girl of 14 Years of Age was troubled with most violent Pains of the Cholick, accompanied with a Fever and Syncope. Anodins, Carminative Clysters, and Purges were prescrib'd, by all which the receiv'd no relief; at last a Clyster of Milk warm from the Cow was order'd, which brought away by Stool above seventy Worms so entangled s of its are related by

(b) Lazarus Riverius citatus a Bonet. in Anat. prast. lib. 3. Sest. 14. pag. 903.

⁽a) Paulus Ægineta lib. 4. cap. 53. Zacutus Luft. tanus. Vol. 1. pag. 361. & lib. de Prax. admirand. Off ferv. 39 & 40. Riverius, &c.

and twisted together, in a round Ball as big as a Man's Fift, that it was hardly possible to separate them; whereupon the Pains and other Symptoms immediately ceased, and the was perfectly eur'd. Fabritias (a). aufly Don doid The Storage Miles a conic The elderthe

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The Cure of the Chalick occasioned by Stones in the Guts, Gall-bladder, or Stomach.

THE Indications for the Cure in this Cause are, 1st, To allay the Viozdly, To prevent Inflammations by Bleeding. 3dly, To bring away the Stones where practicable, which last is a very difficult Undertaking.

Stones in the Stomach are scarce possible to be discharg'd by any other means than by Vomits, and very feldom that way, tho' some Instances of it are related by Authors (b).

(a) Paulis Apineta in a cert 33. Lacates Left

When

⁽a) Fabritius Hildanso Gent. 1. objeret 11 (b) Adera Gent. 5. objere. 57.

When a Stone is suspected to lie in the Guts, and not to be adherent, great quantities of Oil swallowed, and given in Clysters, is the most likely method to bring it away, by lubricating the Parts, and making a hippery Passage for it. After that Globul. Plumb. may be swallowed, to drive it out of the Body, but not unless there are almost evident, Signs of its being loofe, for otherwife the Stone may fix the Bullet, and make a greater stop-

page in the Guts.

When a Stone is judged to be in the Galf-bladder, the strongest Aperitives, Steel Medecines, and Mineral Steel Waters, in large quantities are to be taken, to endeavour the removal of it from thence into the Guts, which has been often effected by their use, and an entire Cure enfued. But if after what a judi-cious Phylician shall account a competent tryal of them, this effect is not produced, nor any Symptoms appear of the Stones being remov'd lower (which if it happens, they ought to be continued, in hopes of its farther Descent, and Exclufion in the end) they are not to be infifted upon. For where the Stones are too large to be brought away, forcing Remedies will render the Paroxisms more requent, if not continual, during their N 2 uie, abel:

tife, and thereby aggravate the Evil.

quantities of Oil Ivallowed, and given in

bring it away, by labricating the Pared and making VX pc. T 13 3 e.

The Cure of Cholicks occasioned by Wounds, Imposthumes, Ulcers, Ruptures, Cancers; by the Adhesion, or Preternatural Position of Parts, by a Caries, by an Excrescence or Inversion of the Cartilago Enlisormis; or proceeding from Habitual Colds, or sudden Passions.

WHEN the Cholick is known to proceed from Wounds, Impofibumes, Ulcers, or Ruptures, we must first endeavour the Cure of those particular Ailments by proper Remedies; till that is effected, it will be in vain to hope for the entire removal of the Cholical Pains, which in these Cases are but Symptomatical.

When the Cholick proceeds from an inward Cancer, there is no Cure possible. Lenitives, Anodins and Narcoticks are the only Medecines of any use, and all their

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these can do is to render the Pains more

supportable.

When the Cholick is occasion'd by the Preternatural Position of any of the inward Parts, by their Adhesion or growing together, or from Callosities in them; there is no entire Cure to be had, tho' the Paroxisms may often be remov'd by Remedies in Sect. 1.

When we have cause to believe that the Cholick arises from a Caries in some particular Bone (which 'tis almost impossible to be certain of till after Death) the only Remedy is to lay the Bone o-

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When the Pains of the Cholick are judged to proceed from a Bony Excrescence or Inversion of the Cartilago Ensiformis, (which is a Case mentioned by good Authors, but what I never met with, nor have read any Cure for) the only Remedy I can think of, would be to open the Skins, and to cut off the inverted part of that Cartilage, or its Excrescence; nor can I apprehend any ill Consequence from it, though it is what probably has never yet been put in Practice.

very little Cold or sudden Passion, the weak Disposition of the Body and the N 2 Blood

Blood is to be remedied by constant Riding, Cold Barns, German Spaw Waters, Car. As these Fits usually go off themselves in a few Hours, no Remedies are necessary to the Cure of the Paroxisms; or if any, Narcoticks alone generally effect it, which if they should not, you must then proceed to the Cure of the Cholick mention'd in Sect. 1.

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Remedies particularly recommended, by various Authors.

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Have thought fit to annex the following Receipts to this Treatife, that Physicians having at hand a view of all sorts of Remedies recommended by our Predecessors in that Science, may chuse out of them what they shall judge best indicated in desperate Cases, where it is better to hazard a doubtful Remedy, than to let the Patient die without attempting his Recovery according to these Axioms of Hippocrates and Gulen. Melius est anceps Remedium quam nullum.

(2) Ubi moriendum prorsus est Agro, alienissis.

yeak Disposition of the Body and

⁽²⁾ Hippocrat. Sett. 1. Aphor. vi.

nissimum a rations est a mitioribus inchoare remedits. And ad morbos extremes, extreme ad unquem practore facere (a).

W. Urin. Puena impuberis salid. Zwij. misc. cam mell despumat q. f. fiat Haustus. In Doloribus Golicis, cateris non conferentibus auxilies, exhibit; omnes excretes flatibus informa & Superne, suproque copiose alvo Superkites evalere. Zacutus Lustanus in Prant Admiranda.

Be Rudend. Fauri pulverifut 3j. vin. moluatio. q. f. misc. fiat haustus. mirifice juvat. - Zacutus.

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Emplastrum e Nive parti dolenti applicaroi, & gelidam Nivem cum Saccharo ad satietatem exhibui in Colico a Bile, cum siti ingenti & dolore, & statim se curatum exclamavit. Zacutus.

focito como dofere, Be Aloes optim. 3j. Laudan opiat. gr. ij. Dacrydii gr. vj. misc. fiant Pillule No vj. quarum capiat iv. bora commoda, & postea reliquases fi non remissor fuerit dolor. Dolores post boram sedam, & postea noxies bumores evacuant. Riverius Ib. x. Prancos: caps join on it stay sound could nime

B. Merh and exhibitions merbent plerungue aspers

⁽a) Galen. lib. 5. Method. Medend. cap. 15.

B. Mercur. dulc. a 3j. ad 3j. Ol. oliv. cochl. j. Sacchar. alb. q. f. misc. Gertissimum est Remedium quod Alvum solvit & dolorem Colicum. ——— Heurnius.

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E HAY

Accipe Testiculos Equorum post Castrationem, eos lava cum vino grosso, scinde in talleolas, exsicca lente in Clibano, & pulveris. Be bujus pulver semin. Anis pulverisat an. 3 j. capiat mane per iij vel iv. dies in haustulo vini vel Juris, jejunando per quatuor hor. Fonseca. Consult. 57.

B. Ol. Saponis gut. vj. vel viij. umbilico cum gossypio impone. efficax. — Schnertus.

R Juris Pisorum zviij. Aq. Card. benedict. zij. Ol. oliv. ziv. Saccbar. zs.
misc injiciatur pro Enemat. quavis bora recrudescente dolore Colico. Ex hujus repetitione miraculose convaluit, sopito omni dolore,
es vacuata Causa, cateris nil prosicientibus.
—Rulandus.

B. Globul. Stercor. Ovin. No v. vel vj. macerentur in vino; cola, & capiat Ager. optimum. — Rulandus.

Semin. Ameos pulverisat 3 j. in vin exhibita, in urgenti dolore eum subito sistit, & secunda exhibitione morbum plerumque ausert, admovendo simul Gataplasma ex Therebinth 3 iij.

the CHOLICK.



Bij. Stupis exceptum, & finapisatum cum Piperis & Sang. Dracon. Subtilissim: pulverisat. an. 3j. Lazarus Riverius lib. x. Prancos cap. in minus I silve

Accipe obturamentum ex Subere confectum, quod per plures Annos buic usui inservierat, & adeo est vino probè imbutum; igne combust. pulverisetur. B. Hujus Cineris 3j. capiat ex vin. Alb. urgenti dolore. Remedium predicatur effe infallibile, quo quidam seipsum & multos curavit. — In Observat. Riverio communication with the state of the state of

. B. Decoct. menth. virid. pota per tres dies. Dolorem colicum prorsus tollit. Actius lib. 9. cap. 31.

Castoreum ad 3j. in tribus Aq. Mulse cyathis assidue potatum, omnium instar est. Fuchfius. I amende

Be Spermat. Ceti non rancid. 3ss. Ol. Amygdal. dulc. Vin. Malvatic. an. q. f. misc. fiat baustus. Sperma enim Ceti ratione pinguedinis suæ non tantum est Acidorum temperamentum, sed & partes demulcet, unde dolorum intermissio. - Crato, trium Imperatorum Archiaterasillor T. Associal . which

Ex Colica Epidemica Paralyticos factos Aguar. Acidular. usu feliciter curavit. Citefus. I ta inversed illustration or and an invited tesus. 14 min

pondere fuces excernant & Fermes enecant.
Unde submenire poterit, cateris hil conferentibus, in Colicis a Globulis Vermium vel ab.
Excrementis indicatis.

Alauda usta, si edatur, miristee Colicos ju-

Be Cere liquefact. q. f. injiciatur pro Bnemat.——Sennertus lib. 3. practic. part. 1. Sect. 2.

Fumus Tabaci inflatus in Anum per modum Enemat. aliquos curavit, cum nil aliud poteit. Bartholinus cent. 4 Epift. 92.

Be Pulver. Intestinor. Hepato vel Stercor.

Empin. 3j. capiat ex Vinc vel Juscul.

Galen lib. 100 de simplic, medicapient. Paulus Ægineta lib. 7. Amatus Lusitanus,

Gesnerus, Petrus Pachequi, &c.

Afferit Galenus loco citato se non potnisse non minari quod Stervis Lupinius candidans appensame Hills, vinculo confesto ex land Ovis a Lupio lavinta, aut ex cervina pelle, evidenter aliquos javisses.

Folle inflentur Intestina, ut discedant a facibus. Hippocrat. Trallianus, Hurtman-

Paralyticos facun

Si Enema recipi nequeat, habe fifulam biforem septem digitis longam, ut foramine uno Enema injicias, alio flatus erumpant.

B 01.

B. Ol. Amzgdal, dulc. Ziv. Kin. ab. Aq. Banietar. à q. l. misc, siat Haustus; deinde devora glandem plambaum argenta viryo illitum. Compeluit statim in summa desperatione.

Incerti

B. Palver, spongiar que inveniunter in Rosis Sylvestribus 3s. sumat ex vino.

Paretur Balmeun en Oleo mon sur geniall

Admoveatur Abdomini Stercus Equinum vel vaccinum calidum.

Glomera Filorum in lixivio Cinerum cocta & expressa calide admoveantur Ventri.

Item Cataplasma en Parietar. Nasturt.

& Capis Costis

Oleum Morebe Umbilico instillat

The following Empirick or Quark Remedies, are mention d here, that Parients being inform d of their infigurationer, may not neglect timely Advice, and proper Medecines, in expectation of any benefit from them.

Girdles made of the Guts of a Wolf, or the same hung round the Neck.

The Navel String of a Child worn for a Charm.

Quick-filver hung in a Bottle round the Neck, so as to touch the Navel.

The Cure, lece. salt

A Load from apply'd to the Navel, by which the pretended by Hartmannus that Cholical Pains will immediately cease.

Another very expensive Cheat is Water made bitter by the Infusion of a Stone found within a Porcupine, and extolled by some as an infallible Remedy.

All these, and the like pretended Charms, are entirely useless.

Sterens L. Animania

vel vaccimum calidum. Clomers Filorum invivioso Cinerum cost.s

. Abdomin.



The Navel String of a Child worn for a Charm.

Which filter hung in a Borde round the Neck, fo as to touch the Navel.

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